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MARCH 27, 1915.

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with

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packed in ambertinted glass jars —labelled.

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1 lb., 1 lb., 2 lb., 4 lb.

Orders can be received for immediate delivery.

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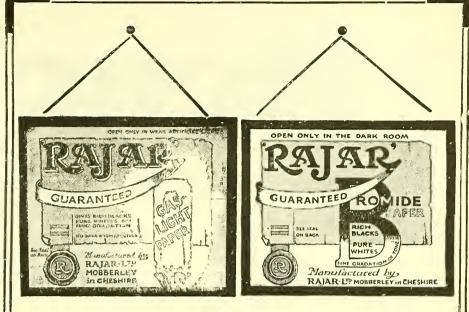
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Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Lane-Hall, R. & Co.
Mallinckrodt Chem. Works
Martindale, W.
May & Baker, Ltd.
Reitmeyer & Co.
Saccharin Corporation, Ltd.
Socheler, Emil, & Co., A. G.
Southall Bros. & Barclad,
Ld.
Verer, P. & Co.
Lid.
Washington Chemical Co., Ld.
White, A. & Sons
Zimmermann, C., & Co.
(Chemicals), Ltd.
Chloride of Line

Chloride of Lime Brunner, Mond & Co., Ltd.

Chlorodyne
Davenport, J. T., Ltd.
Freeman's Chlorodyne, Ltd

Chloroform Burroughs Wellcome & Oo. Duncan, Flockhart & Oo. Macfarlan, J. F., & Co. May & Baker, Ltd. Smith T. & H., Ltd. Southall Bros. & Barclay, Ltd

Cigars & Cigarettes Singleton & Cole, Ltd. Citric Acid and

Citrates
BritishDrugHouses,Ltd.,The
Burgoyne, Burbidges & Oo.
Howards & Sons, Ltd.
Pelliot, Henri, & Cie
Sturge, John & E., Ltd.

Clinical Thermometers Bnrge, Warren & Ridgley, Ld. Bush, H. W., & Co., Ltd. Hicks, James J. Maw, S., Son & Sons Perken, Son & Co., Ltd. Pillischer, J. Powell, J. T., & Co Zeal, G. H.

Cloth Balls O'Neil, Zetts & Co. Senier, Alf., & Co.

Coal Tar Specialities Wright, Layman&Umney,Ld.

Cocaine Roques, Ferdinand

Cocoa British Casein Co. (1911), Ltd. Cadbury Bros., Ltd. Plasmon, Ltd.

Cod Liver 011
Arnfield, J. C., & Sons, Ltd.
British Drug Houses, Ld. The
Bugge, Johann, & Co.
Evanssons Lescher&Webb, Ld
Southall Bros, & Barclay, Ltd
Sparks, White & Co., Ltd.
Wright, Layman & Umney, Ld

Globe Box Co.

Collapsible Tubes
Betts & Co., Ltd.
Brooks, Peel & Co
Venesta, Ltd.

Combs Hovenden, R., & Sons, Ltd.

Condensers Bennett, Sons & Shears, Ltd.

Confectionery,

Medicated Guest, Thos., & Co. Pascall, James, Ltd.

Continental Props. Bresillon, M., & Co. Roberts & Co. Wilcox, Jozeau & Co.

Coppersmiths
Dore, John, & Co.

Corks Mitchell, N. W., & Sons, Ltd Corn Plasters

Coumarin

Zimmermann, C., & Co., Ltd.

Counter Adjuncts EvansSonsLescher&Webb,Ld

Counter

Specialities
Alien & Hanburys, Ltd.
British Drug Houses, Ld., The
Burgoyne, Burhidges & Co.
Hewlett, C. J., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ld.

Counting and
Filling Machine
Forgrove Machinery Co.,Ltd.

Court Plaster

Cream of Tartar Pelliot, Henri, & Cie

Creosote Baiss Bros. & Stevenson, Ltd

Crepe Bandages Gimber, W., & Son Burge, Warren&Ridgley, Ltd. NorwichCrepe Co. (1856), Ltd. Wood, Vincent

Cyanides May & Baker, Ltd.

Dairy Specialities Fullwood, R. J., & Bland Oldfield, Pattinson & Co. Tomlinson & Hayward, Ltd.

Dental Mechanics

Fentiman, A. G. Fentiman, A. J., & Co. Halder, E. C. Templar Malins, Ltd. Wardale, F. C., & Co.

Beecham, T.
Beell John), Hills & Lucas, Ld.
Berton, Arthur, Ltd.
Blackie, Robert
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Eucryl, Ltd.
Gosnell, John, & Co., Ltd.
McKess, Son & Sons
Gdol Chemical Works
Parke, Davis & Co.
Sangers Dentifrices

Sangers
Standard Tablet & Pill Co., Ld.
Woolley, J., Son & Co., Ltd.
Developers(Photo.) Evans Sons Lescher & Wehb Johnson & Sons (Mig. Chts.) Dextrip

Fink, F., & Co. Diabetic Foods Van Abbott, G., & Sons Diamidophenol

Digestive Products Dimethylaminoantipyrin

Disinfectants Disinfectants
Baiss Bros. & Stevenson, Ltd
Burgoyne, Burbidges & Co.
Burt, Boulton & Haywood, Ld
Cook, E., & Co., Ltd.
Harker, Stagg & Morgan, Ltd.
Jeyes' Sanitary Compds. Ltd
Potelweld, A., Ltd.
Bright, A., Ltd. Reichwald, A., Ltd. Sanltas Co., Ltd. Standardised Dismfeetants

Co. Ltd. Co. Ltd. Stevenson, H. E., & Co. Willows, Francis, B. & T., Ltd Wright, Layman & Umney. Ld Druggists'Sundries Draggists Sundries
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Brook, Parker & Co., Ltd.
Brytstele Manfg. Co.
Burge, Warren & Ridgley, Ld.
Burgoyne, Burbidges & Co.
Rush, H. W., & Co., Ltd.
Edwards, W., & Son
EvansSonsLescher& Webb, Ld
Hovenden R., & Sons, Ltd.
Hovenden R., & Sons, Ltd.

EvansSons Lescher & Webb, Hovenden, R., & Sons, Ltd Longeroft, H. M. Maw, S., Son & Sons May, Roberts & Co., Ltd. Newhery, F., & Sous, Ltd. Quelch, H. C., & Co.,

Quelch, H. C., & Co.,
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Sonthall Bros. & Barclay, Ltd
Swales, Thomas
Toogood, W., Ltd.
Drugs, Crude
Burkett, Sharp & Co.,
Gathergood's Exor.
Goodail, Backinouse & Co.
Lambert, Saml., & Co.
Potter & Clarke, Ltd.
Raimes & Co.

Eartherware, Jars.

Earthenware Jars, Fulham Pottery and Cheavin Filter Co., Ltd.

Fulham Pottery and Cheav Filter Co.. Ltd. Eau de Cologne Bronnley, H., & Co., Ltd. Christy, Thos., & Co. Erasmic Co., Ltd. Goonell, John, & Co., Ltd. Lescol Perfumery Co. Maw, S., Son & Sons May, Roberts & Co., Ltd.

sangers' Schutze, F., & Co., Ltd. Vinolia Co., Ltd. Educational

Institutions Institutions
BathèwestoEnglandCollege
Birmingham and Midland
College
British Optical Institute
College of Preceptors
Elt's College
Liverpool School of Pharmacy
London College of Pharmacy
Sothol of Pharmacy
Sothol of Pharmacy
Sothol of College
Westminster College
Westminster College
Elastic Gum Insts.

Elastic Gum Insts.

Mason Bros. & Chapman Elastic Mosiery Ayrton, Saunders & Co., Ltd. Burge, Warren & Ridgley, Ld. Haywood, J. H., Ltd. Maw. S., Son & Sons Wood, Vincent

Electrical Novelties Ward & Goldstone
Wright, Archd. J., Ltd.
Emery and Cioth
Oakey, J., & Sons, Ltd.
Emetine Salts

Carnegue Bros.
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd

Emulsifiers
Bennett, Sons & Shears, Ltd.
Wilkinson, S. W., & Co.
Emulsions, C.L.O.,

&c. L.O., &c. Arnfield, J.C., & Sons, Ltd. Ayrton, Saunders & Co., Ltd. Baiss Bros. & Stevenson, Ltd. Blaokie, Robert Browning, Wm., & Co.

Cnpal, Ltd.
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.,
Stevenson, H. E., & Co.
Wyleys, Ltd.

Enamelled Hospital Requisites rme, Evans & Co., Ltd. Endolytic Tubes

Endolytic Tubes
Fletcher & Co. Ltd
Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Maw, S., Son & Sons
Epsom Salts
Howards & Sons, Ltd.
May & Baker, Ltd.
Essences,
Sol. and Fruit
Alliance Drug & Chem.

Sol. and Fruit
Alliance Drug & Chem.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Stevenson & Howell, Ltd
Ethers

Baiss Bros. & Stevenson, Ltd. Duncan, Flockhart & Co. Howards & Sons, Ltd. Macfarlar, J. F., & Co. May & Baker, Ltd. Typer, T., & Co., Ltd. White, A., & Sons Eucalyptus Oil British Drug Houses, Ltd., The Stevenson, H. E., & Co. Tasmanian Eucalyptus Oil Co. Tasmanian Eucalyptus Oil Co.

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Arnifeld, J. C., & Sons, Ltd.
Arnifeld, J. C., & Sons, Ltd.
Burroughs Wellcoms & Co,
EvansSons Lescher& Wishb, Ld.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W. & Son, Ltd.
Factory, & C., Sites
Great Western Railwav
Feeding Bottles
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Feeding Cons.

Schutze, F., & Co., Ltd.
Feeding Cups
Bishop & Stoniev, Ltd.
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Forgrove Machinery Co., Ltd.
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Filter Papers
Ford, T. B., Ltd.
Finger Stalls

Solport Bros
Flower Oils Zimmermann, C., & Co. Flycatchers

Fly Catenors
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Foods, Invalid, &c. Allen & Hanburys, Ltd.
Rell (John), Hills & Lucas, Ltd.
Beuger's Food, Ltd.
Brand & Co., Ltd.
British Casein Co. (1911), Ltd.
British Milk Products Co., Ld hritish Milk Produces Co., Lacciolman, J. A. J. Ld.
Deans, Logan & Co., Ltd.
Fearchid Bros, & Foster
Frame Food Co.
Harker, Stagg & Morgan, Ltd.
Lorimer, John
Lotthouse & Saltmer, Ltd.
Mellins Food, Ltd.
Plasmon, Ltd.
Reade Brus, Ender, Ltd.
Reade Brus, Ender, Ltd.
Willows, Francis, B. & T., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wulling, A., & Co.
Foot Appliances

Foot Appliances
Scholl Mnfg. Co., Ltd.
Fruit Drink McGlashan, D.
Fuller's Earth

Mnmford, G. S., & Sons
Fumigators
Sanitas Co., Ltd.
Gallic Acid
Mallinekrodt Chem. Works
Glassware,
Ch. mical

Ch. mical

Lang, Jules, & Son
Glycerin
Price's Patent Candle Co., Ltd.
Glycerophosphates
Commanto Chemical Works Monsanto Cliemical Work Reitmeyer & Co. Grease Paints

Osborne, Garrett & Co. Quetch, Henry C., & Co. Grease Remover Perkin & Co., Ltd. Grinders, Drug, &c.

Grinders. Drug, &c.c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows. Francis, B. & T., Ltd.
Gripe Water
Woodward, W., Ltd.
Gums
Fink, F., & Co.
Kidston, W. M., & Co.
Lamhert Saml., & Co.

Hair Dyes Harker, C.R., Stagg & Morgan Blackie, Robert Preparations Hair

Hair Preparation Alexandre, L. Anzora Perfumery Co. Blackie, Bobert Edwards "Harlene" Co. Osborne, Garrett & Co. Sangers Tokalon Ltd.

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Milner's Chemical Co.
Senier, Alf., & Co.
Hat Dyes
Whitaker & Co.
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Potter & Clarke, Ltd.
Salle, H., & Co.
Hexamethylen-

tetramine Reitmeyer & Co. Homœopathic Wedicines

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Keene & Ashwell, Ltd.
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Western Honey Co.
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Harvey & Co. (Dublin), Ltd.
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Ward & Goldstone Hotels Kingsley Hotel
Thackeray Hotel
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Hot Water Bottle Stoppers Rowe, T. Walfrid

Rowe, T. Wilfind

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May & Baker, Ltd.
Sanitas Co., Ltd.

Tyrer, T., & Co. Ltd.

Hydrokinone

Hydrokinone
Johnson & Sons (Mnfg. Chts.)
Hypophosphites
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
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Concentrated

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Ink, Dichroic
Bewley & Draper. Ltd.
Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.
Insect Powder

Insect Powder
Keating, Thomas
Potter & Clarke, Ltd.
Raimes & Co.
I oddes
Raimes, Clark & Co., Ltd.
Junket Powder Armour & Co., Ltd.
Lamels, Gelatine Savory & Moore, Ltd. Lanolines

Hillerest Oil Co., Ltd. Howard Lloyd & Co., Ltd. Lard Ewen, J., & Sons

Ewen, J., & Sons

Lavender Oil

Allen, Stafford, & Sons, Ltd.
Guillevie, E., & Co.
Ransom, W. & Son Ltd.

Lavender Water

Bush, W. J., & Co., Ltd.

Gosnell, John, & Co., Ltd.

Vinolia Co., Ltd.

Leeches

Allen & Hauburys, Ltd.

Ligatures

Seabury & Johnson

Seabury & Johnson

Seabury & Johnson
Lime Juice and
Cordial
EvansSons Lescher& Webb, Ld
drins & Co., Ld.
Linseed, Crushed
Mumford, G. S., & Sons
Lints
Liverpool Lint Co.,
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Liquorice Juice
Boehm, F., Lta.

Boehm, F., Lta. EvansSons Lescher & Wehb, Ld Jacksou, Ernest, & Co. Solazzi Lithia Salts

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Hall Forster & Co., Ltd.
Internl.Sponge Importers, Ld
Solport Bros.

Lozenges Lozenges
Swales. Thomas
Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Broz., Ltd.

Acrators, Ltd.
Lysols
Acrators, Ltd.
Burt, Boulton & Haywood, Ld
EvanaSons Leschere Webb, Ld
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Bennett, Sons & Shears, Ltd.,
Forgrove Machinery Co., Ltd.
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Griffin, John J., & Sons, Ltd.
Jackson, J. G., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wikinson, S. W., & Co.
Magnesia and
Preps.

Preps.
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Tokalon Ltd.
Wishington Chemical Co., Ld.
Malt Extract and

Malt Extract and Preps.
Allen & Hanbury, Ltd.
Blackie, Robert
British Drug Houses, Ld., The
Burroughs Wellcome & Co.
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Davies, Sons & Co.
Ltd.
Davies, Sons & Co.
Ltd.
Lorimer Marshall, Ltd.
May, Roberts & Co., Ltd.
Pletcher, Fletcher & Co., Ltd.
Lorimer Marshall, Ld.
May, Roberts & Co., Ltd.
Pascall, James, Ltd.
Wyleys, Ltd.
Wyleys, Ltd.
Wyleys, Ltd.

Marking Ink
John Bond ('Crystal Palace')
Measures, Graduated
Bush. H. W., & Co., Ltd.
Meat Extracts

Armour & Co., Ltd. Brand & Co., Ltd. Tooth's Extract of Meat Co. Medical Coils

Ward & Goldstone

Ward & Goldstone

Mercurials
Allance Drug & Chemical Co.
Howards & Sons, Ltd.
Myer B. & Co.L.
Tyrer F. & Co.L.
Metal Clips
Griffin, John J., & Sons, Ltd.
Methylarsenates
Roques, Ferdinand
Methylatad South

Methylated Spirit Methylated Spirit Burrough, J., Ltd. Preston's Liverpool Distillery Randall & Son, Ltd. [Co., Ld. Riddell & Smith Thornley, Samuel, Ltd. Metric Weights Avery, W. & T., Ltd. Mineral Waters Canwal, Ltd.

Canwal, Ltd.
Coulsworthy
Idris & Co., Ltd.
Ingram & Royle, Ltd.
Mixers and Sifters
Gardner.Wm.&Sons(Glos).Ld

Naphthalene Burt, Boulton & Haywood, Ld
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Price's Patent Candle Co., Ld.

Olis, Essential
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co
Boake Roberts & Co., Ltd.
Bonaventura, F. & Co.
Bush, W. J., & Co. Ltd.
Dough Stafford, & Co., Ltd.
Dough Stafford, Co., Ltd.
Dough Stafford, Co., Ltd.
Dough Stafford, Co., Ltd.
Dough Stafford, Co., Ltd.
Lane Hall, R., & Co.
Loudon Essence Co.
Lueders, George, & Co.
Poppelreuter W.
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Verona Chemical Co.
Wright, Layman& Umney, Ld.
Zimmermanu, C., & Co., Ltd. Oils, Essential Zimmermanu, C., & Co., Ltd.

Oils, Mineral, Fatty, &c.
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Boehm, F., Ltd.
Hertz & Co.
Price's Patent Candle Co. Ld
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Burgess, E.
Oldfield. Pattinson & Co.
Peat Products (Sphagnol) Ltd.
Raimes, Clark & Co. Ltd.

Rames, Clark & Co., Ltd.

Olive Oil
Ferrer, J., & Co.
Guiltevic, b., & Co.
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Boonm F., Ltd.
Opal Jars
Toogood, Wm., Ltd.

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Optical Foods Darton, F., & Co. Maw, S., Son & Sons Nitsche & Gunther Optical Co., Ltd. Standard Optical Co.

Optical Tuition
British Optical Institute
College of Optics
Spectacle Makers Company

Orange and
Quinine Wine
Holson, Joseph. & Son
idris & Co., Ltd.
Millar, A., & Co., Ltd.
Bobinson, B., & Co., Ltd.

Organic Solvents Hopkin & Williams, Ltd. Organo-Therapeutic Preps. Armour & Co., Ltd. BritishOrganotherapy Co., Ld Duncan, Flockhart & Co.

Otto Rose (French) Guillevic, E., & C

Otto Rose (Synth.)
Rush, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd
Stev nson, H. E., & Co.
Wright, Layman & Unney, Ld.

Orygen Baths

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Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
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Southall Bros. & Barclay, Ltd
Standard Tablet & Pill Co., Ld.
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Palatinoids
Onnenheimsr. Son & Co., Ltd.
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Cream Muss, Ltd.
Paper
Handkerchiefs
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Paradinum Liquidam

Paramam

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Pastilles

Allen & Hanburys, Ltd.
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Evans Sons, Lescher & Webb
Guest, Thos., & Co.
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Raworth, John E.

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Bush W. J., & Co., Ltd.
Bush W. J., & Co., Ltd.
Rudd, F. M., & Son, Ltd.
Rudd, F. M., & Son, Ltd.
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Peptone

Peptone Fairchild Bros. & Foster May & Baker, Ltd. May & Baker, Ltd.

Perfu me Materials

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Line Hall, R., & Co.

Lucdiers, George, & Co.

Lucdiers, George, & Co.

Lucdiers, George, & Co.

Stevenson & Howell, Ltd.

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Porf ames
Allen & Hanhurys, Ltd.
Baiss Bros. & Stevenson, Ltd.
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Bronnley, H., & Co., Ltd.
Christy, T., & Co.
Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
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Gesnell, John, & Co., Ltd.
Lescol Perfumery Co.
Potter & Clarke, Ltd.
Price's Co., Ltd.
Quelch, H. C., & Co.
Sin'ley Bros. & Barclay, Ld.
Tozana Perfumery Co.
Vinolia Co., Ltd.
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Warrick Bros., Ltd.
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Tye, John, & Sou Pessaries (Soluble) Burge, Warren & Ridgley, Ld. Rendell, W. J.

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Greeff, R. W., & Co.
Read, Holliday & Sons, Ltd.
Reltmeyer & Co.
Phosphorus and

Phosphorus and Preps.
May & Baker, Ltd.
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Johnson & Sons (Manufacta.
Chemists), Ltd.
Lane-Hall, R., & Co.
Reitmeyer & Co.

Reitmeyer & Co.

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Evans Cons. Ltd.

Lennon, Ltd.

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Rajar, Ltd.

Sangers Sangers
Wylevs, Ltd.
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Photo. Posteards
Rajar, Ltd.

Pill Makers

Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howard Lloyd & Co., Ltd.
McKesson & Robbins
Standard Tablet & Pill Co.,Ld.
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Plasters
Dalmas, A. de St., & Co.
Galen Manufetg. Co., Ltd.

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Pocket Lamps Electric
Ward & Goldstone
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Holiday & Co.
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Postal Boxes Robinson & Sons, Ltd. Powder Paper

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Angleo-Amer. Pharm. Co., Ltd.
Angleo-Amer. Pharm. Co., Ltd.
Ashton & Parsons, Ltd.
Beecham. Teache & Chiapetta
Belldohn. Hills & Lucas, Ltd.
Bercham. Met. Ltd.
Brestlon Met. Ltd.
Brestlon Met. Ltd.
Brestlon Met. Ltd.
Co.
Rrowning, W., & Co.
Rrowning, W., & Co.
Colman, J. & J., Ltd.
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Crimson Cross Dispensary
Cupal, Ltd.
Dalsy, Ltd.
Dalsy, Ltd.
Dalsy, Ltd.
Dalsy, Ltd. Proprietary

Crimson Cross Dispensary
Cupal, Ltd.
Dalsy, Ltd.
Dalsy, Ltd.
Deions, Ltd.
Electric Co.
Edwards, W., & Son
Evansson-Leacher&webh, Ld
Expurso Wanfe. Co.
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Evansson-Leacher&webh, Ld
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Henry, T. & W. & Sons
Henry, T. & W.

Paffs Schutze, F., & Co., Ltd. Solport Bros.

Solpett Bros.

Pyrogalite Acid
Greet, R. W., & Oo.
Quinine and Salts
Alliance Drug & Unem. Oo.
Bandeeng Quinine Factory
Oorbyn, Stacey & Oo., Ltd.
Greet, E. W., & Oo.
Hewards & Sons, ttd
Reitmeyer & Oo.

Reitmeyer & Co.

REZOTS

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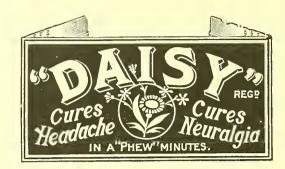


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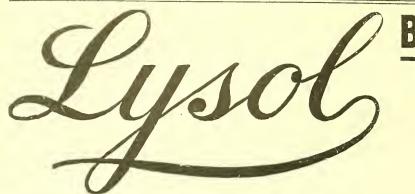
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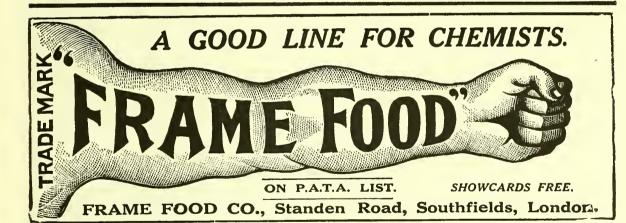
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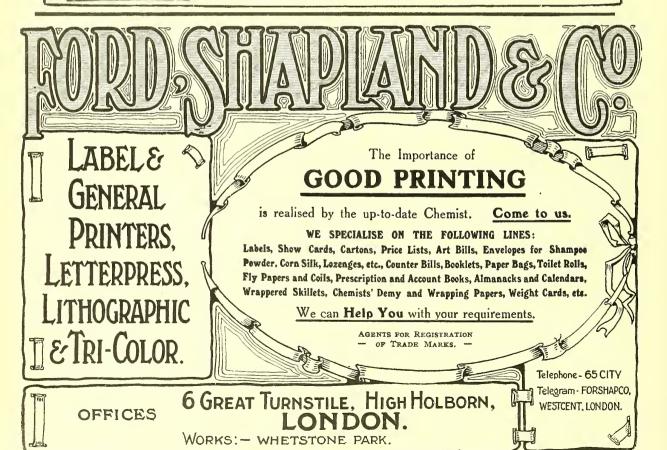
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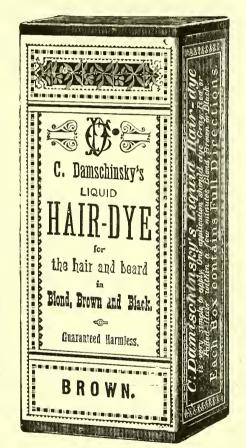
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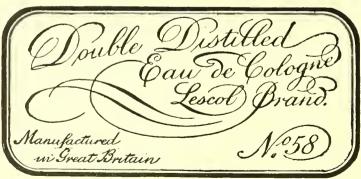
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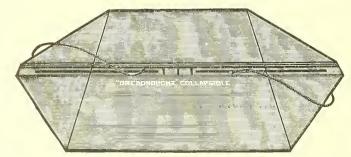
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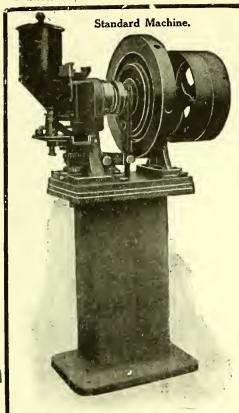
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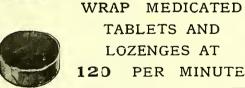
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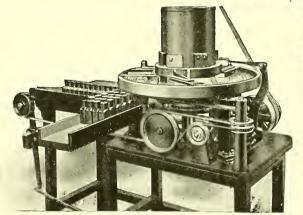
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S. W. WILKINSON & CO., ENGINEERS LEICESTER.



#### FORGROVE MACHINES





APPLY TO THE



## Forgrove Machinery Company, Limited,

Dewsbury Road, Leeds, England.

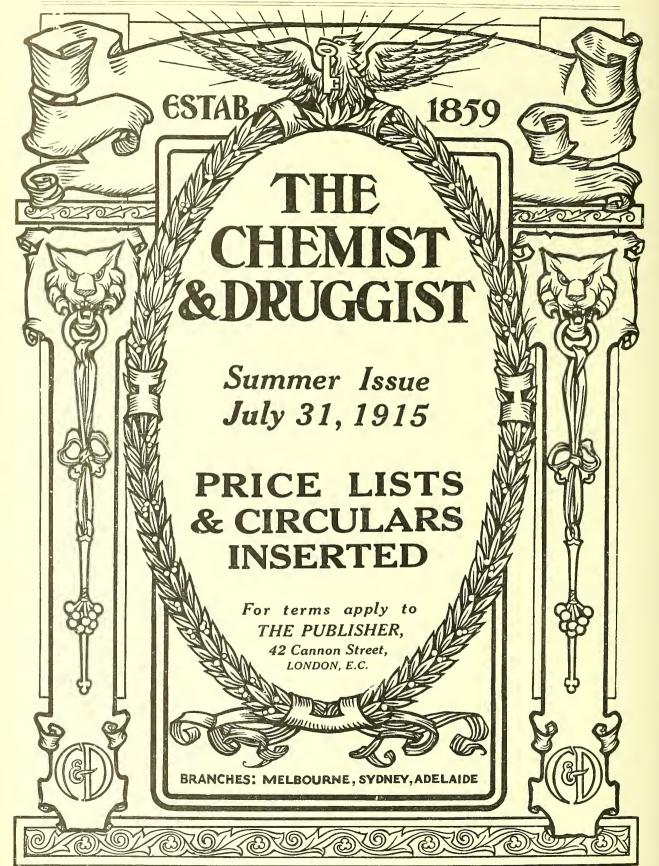
ALL KINDS OF WRAPPING, LABELLING AND GUMMING MACHINES AND OTHER LABOUR-SAVING DEVICES.

## THE FORGROVE COUNTING AND FILLING MACHINE.

OUTPUT-600-1200 Bottles or other Receptacles per hour.

COUNTS ACCURATELY.
COUNT CAN BE VARIED
NARROW-NECKED BOTTLES
USED.

DOES NOT BREAK TABLETS.



# WHEN YOU WANT-



Packed in 4-lb. Boxes and 4 ounce packets with

HANDSOME SHOWCARDS FOR WINDOW DISPLAY.

A GOOD
SPRING LINE

WRITE US

For Samples and Prices of

Fig, Senna and Sulphur Tablets.

THOS. GUEST & Co.

Manufacturing
Medicated Confectioners,

ANCOATS, MANCHESTER

# "FERROCARNIS"

A pleasantly flavoured solution of iron in organic combination with BRAND'S Concentrated Raw Meat Juice.

Ferrocarnis combines the stimulating properties of meat juice with the tonic effect of iron. This product does not cause constipation, and thus affords a means of administering iron to patients who are unable to take ordinary iron preparations.

PREPARED BY

BRAND & CO., LTD., SOUTH LAMBETH ROAD, S.W.

THE ANNUAL

# Colonial and Foreign Issue

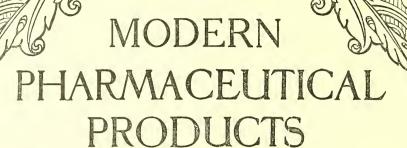
Of THE "CHEMIST & DRUGGIST" will be published on

APRIL 24, 1915

In view of the fact that Great Britain is the only country doing a free Overseas Trade at the moment, the opportunity for advertising will be appreciated.

ALL PARTICULARS AND ADVERTISING RATES FROM

THE PUBLISHER, The "Chemist and Druggist," 42 Cannon St., London, E.C.



## SACCHARIN

Highest possible strength 550 times sweeter than pure cane sugar.

500 Soluble 450 Crystals 330 & 300

All strengths supplied duty paid or in bond for export,

## NOVOCAIN

The Non-Irritant Local Anæsthetic.

GOLD MEDAL at International Medical Congress, London, 1913.

NOVOCAIN

DOES NOT CONTAIN COCAINE.

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HIS MAJESTY'S WAR OFFICE and
H.M. INDIA OFFICE.

Price Lists and Literature on application

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A NEW HARMLESS
NON-TOXIC SUBSTITUTE
FOR MORPHIA.

Specially recommended in Painful Dressings, Inoperable Cancer, Gall-stone, Sciatica, Neuralgia, etc.

> In Ampuls (1cc.) for Hypodermic Injections.

In Coated Tablets for Internal Administration.

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FORMERLY KNOWN AS

COAGULEN

"CIBA"

THE NEW SURGICAL HEMOSTATIC Vide "The Lancet," July 18th, 1914.

Powerful Styptic hastening coagulation and clot formation. Prepared from blood residues, free from inorganic salts. Non-irritant, non-corrosive and nontoxic. Renders tamponage and ligature of small vessels unnecessary. Facilitates healing of wounds by first intention.

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PHARMACEUTICAL DEPT ..

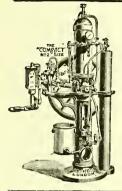
36 & 37, QUEEN STREET, CHEAPSIDE, LONDON, E.C.

# BARNETT & FOSTER

COLD MEDALS.

The Best House in the World for all requirements of the Mineral Water Trade.

HICHEST AWARDS.



# "COMPACT" complete Soda-water Machine

For use with Compressed Carbonic Acid Gas is specially designed FOR CHEMIS 1S, and is provided with one or more filling machines.

Occupies little space. Ready for immediate use. Requires no fixing.

Produces Soda-water, Lemonade, etc., of the highest quality and greatest purity,

PRICES-

THE PERFECTION OF SIMPLICITY.

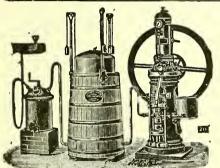
No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles and Syphons ... £60

No. 2.—Capacity 600 dozen per day, including Filling Machines for Bottles and Syphons £48 No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles or Syphons £33

We also make a smaller machine at \$20.

AUTOMATIC CARBONATION.

To those who can spare space in which to generate their own gas, we offer the "Niagara" machines advertised below.



# **NIAGARA" Soda-water Machine**

(Continuous Action).

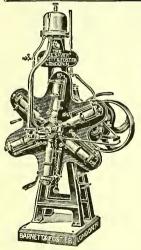
This machine is superseding all other types for the manufacture of FIRST-CLASS Aerated Waters, and is in use in most of the leading manufactories throughout the world

#### COMPLETE, from

FITTED FOR HAND AND POWER

Particulars of Larger Sizes on application.

NOTE.—These machines are sept out by us complete and ready for work.
We include all necessary connecting pipes without extra charge.
No "extras" to pay for after buying our machines.



# STUDY QUALITY—AS CHEMISTS MUST—

By Bottling on our Latest Types of Filling Machines. We Guarantee the

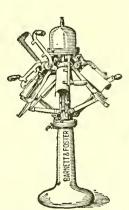
# **Highest Quality Soda-water** at 60-lb. Pressure!

thereby Saving Gas, avoiding Bottle-breakage and improving quality of Products. --The secret:

BACK PRESSURE—PROPERLY APPLIED.

> Particulars of the "GAS-SAVER," for filling Codd's and Niagara Bottles; The "ROUNDABOUT," for filling Corked, Crowned and Screw Bottles sent on application.

SAVE MONEY.



THE "ROUNDABOUT in 6 sizes, prices from £25

THE "GAS-SAVER." Price £60

CATALOGUE of all our Manufactures, including Syphon-filling Machines, Syphons, all classes of Bottles, Modern Bottle-washing Appliances, Ice and Refrigerating Plant, Essences, Flavourings and Drugs, and every requirement of the trade sent FREE on application to-

NIAGARA WORKS, 26' EAGLE WHARF ROAD, LONDON, N., AND AT BOLTON, LANCS.

# "Stretton"

The English

# Natural

# Table Water

The Purest in the World.

Copy of Analysis sent on application.

The Stretton Hills Mineral Water Co.
Church Stretton,
Salop.

London Depot: RICHARD DAVIS, 20 Maddox Street, W. Manchester : JEWSBURY & BROWN, Ardwick Green.

# SAPONINE

(SOLUBLE),

MANUFACTURED BY

# C. W. FIELD, LTD.,

Cambrian Mills, LIVERPOOL.

special Terms to Wholesalers and large Consumers.

# ERNEST JACKSON & CO.

Manufacturing Chemists.

Specialists in MEDICATED LOZENGES, PASTILLES, JUJUBES, COMPRESSED TABLETS, CAPSULES, PERLES, CACHOUS, BOILED GOODS, SALINES, &c. &c.

IMPORTERS of LIQUORICE JUICE and makers of THE ORIGINAL cushion-shaped

LIQUORICE & MENTHOL PELLETS.

WORKS & CREDITON, DEVON.

D. POT: Crosby Row,
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— Telephone: HOP 2668—

TELEPHONE: CREDITON, No. 10.

ELEGRAMS: "JACKSON-CREDITON."

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You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis," because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENSES.—It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a license.

COLEMAN & CO, Ltd., Wincarnis Works, NORWICH.



MEDHEN SMITH & CO. LIMIT



Burgundy—emphasised by widespread Advertising -are still asserting themselves so irresistibly that every new sale is almost a guarantee of increasing regular custom. Use well our aids to attractive

display, confidently recommend each brand, and you can open up fresh business again and again.

#### $8\frac{3}{4}$ d. per bottle on Hall's Wine

Merit has given Hall's Wine its position as the National Restorative - merit continually, abundantly confirmed by the testimony of thousands of doctors and of patients all over the country. And this merit holds big opportunities of new trade for you.

#### 10d. per flagon profit on Keystone Burgundy

Produced by the world's richest vineyards, guaranteed pure and genuine-on every flagon-by the South Australian Government, Keystone Burgundy commands the confidence of yourself and your customers. On MERIT its popularity is growing greater and greater.

# Hall's Wine **Keystone Burgundy**

The trade is yours or another's — Whose shall it be?

#### WHOLESALE PRICES:

#### HALL'S WINE

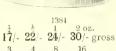
1 dozen Bottles, 35/- per case 2 dozen Half-Bottles, 39/- per case

#### KEYSTONE BURGUNDY

1 dozen Quart Flagons, 21/- per case 2 dozen Pint Flagons, 21/- per case TERMS:—Three cases, carriage paid, nett. Six cases, carriage paid, less 2½ per cent. discount. Twelve cases, carriage paid, less 5 per cent. discount. SOLE PROPRIETORS: STEPHEN SMITH & CO., LTD., BOW, LONDON.









1487 35/- gross











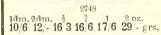








2 oz.



1689 37/- 46/- gross

Subject to usual terms. Stock in London.

WILLIAM TOOGOOD, Ltd. 77 SOUTHWARK STREET, LONDON, S.E.

# STOP GUESSING

about your Cash Transactions. Use a

## GLEDHILL TILL

and know them. Invaluable for obtaining a dissected record of your sales.

60,000 IN USE. G. H. GLEDHILL & SONS

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SEND FOR LISTS.

# Notice to Chemists.

Keep This Before You.

# GEORGE COOK,

THE CHEMISTS' WORKING SHOPFITTER, Catherine Street, City Road, Old Street, London.

Cheapest Manufacturer of Silent Salesman Showcases and Chemists' Fittings of every description. 30 years fitting Pharmacies.

Estimates and Rough Sketches free.

You can't do better!



THE "LIVE" PHARMACIST GRASPS THE OPPORTUNITY AFFORDED BY HIS WEIGHING MACHINE AND RECOMMENDS A COURSE OF "ROBOLEINE" BECAUSE HE KNOWS:-

ITS BENEFICIAL EFFECTS ENSURE REPEATED SALES, HIS REPUTATION IS CONSIDERABLY ENHANCED. HIS PROFIT IS PROTECTED BY THE P.A.T.A.

SPECIAL TERMS FOR WINDOW DISPLAYS.

OPPENHEIMER, SON & CO., LTD., 179 Queen Victoria St., LONDON, E.C. ENTIRELY BRITISH HOUSE SINCE FOUNDATION.

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"CHEMICKING, FEN, LONDON."

Telephone No.:

AVENUE 6660 (3 lines).

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# Reitmeyer & Co.

for many years the <u>Sole Sellers</u> in <u>Great Britain</u> and <u>English</u>speaking countries of the <u>Chemicals manufactured</u> by some of
the best known

# FRENCH, SWISS,

#### ACIDS:

ACETYLSALICYLIC, BENZOIC, CITRIC, DIETHYLBARBITURIC, SALICYLIC, PHOSPHORIC, PYROGALLIC, TANNIC, GALLIC, & TARTARIC.

#### ALKALOIDS:

ADRENINE, ARECOLINE, COCAINE, COTARNINE, ESERINE, STRYCHNINE,

CACODYLATES, CREAM OF TARTAR.

DIACETYLMORPHIA, ETHYL CHLORIDE.

GLYCEROPHOSPHATES, GUAIACOL,

and preparations.

HEXAMINE. LITHIUM SALTS.
MERCURIALS: METHYLSULPHONAL.

# ITALIAN, AMERICAN FIRMS.

PHENACETIN, PHENAZONE,
PHENOLPHTHALEIN, DIAMIDOPYRINE,
PHOTOGRAPHIC CHEMICALS
(Pyrogallic Acid, Metol, Amidol, &c.)

PHYSIOLOGICAL PRODUCTS (Pancreatin, Diastase).

POTASSIUM SALTS.

QUININE SALTS, SALOL, SALICYLATES. RESORCINE.

SILVER SALTS

(Proteinic, Nucleinic, &c.)

SUGAR OF MILK, SULPHONAL, THYMOL, TRIONAL. UROPURGOL. VANILLIN, YOHIMBINE.

Limited Stocks of above products in London.

DIRECT SHIPMENTS FROM GENOA, MARSEILLES, NEW YORK, PHILADELPHIA, AND BOSTON.

# "KHARSIVAN" SALVARSAN

Trade Mark)

AND

# 'NEOKHARSIVAN' NEOSALVARSAN

(Trade Mark)

BRAND

British-made by Burroughs Wellcome & Co. under licence from the British Board of Trade and biologically tested under arrangements approved by that Board.

These British products replace Salvarsan and Neosalvarsan of German make and are to be used in precisely the same manner and dosage.

<sup>4</sup>KHARSIVAN' Brand Salvarsan is supplied in hermetically-sealed glass tubes containing 0·1 gm., 0·2 gm., 0·3 gm., 0·4 gm., 0·5 gm. and 0·6 gm. \*NEOKHAR&IVAN "Brand Neosalvarsan is supplied in hermetically-scaled tubes containing 0:15 gm., 0:3 gm., 0:45 gm., 0:6 gm., 0:75 gm. and 0:9 gm.



BURROUGHS WELLCOME & CO., LONDON

# LEECHES

ALLEN & HANBURYS LTD. desire to make it known to the Trade that they are now in a position to furnish a regular supply of Leeches at the following rate — 4/6 per dozen, subject.

# ALLEN & HANBURYS LTD., LONDON

The British Medical Journal says:

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"Benger's Foodhas, by its
excellence, established a
reputation of its own."

#### GOLD MEDAL AWARDED

Health Exhibition, London, Adelaide and Melbourne

The Lancet describes it as "Mr. Benger's admirable preparation."

88

Showcards and

Handbills on

application

ON THE P.A.T.A. LIST



Red Design No 585439

Wholesale of all Wholesale Houses and Shippers, or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117, Pitt Street, Sydney, Australia; 92, William Street, New York, U.S.A. Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal and Branches.

No. 36

# GLASSCINE LABELS BRIGHTEN the PHARMACY

If you have never handled a Glasscine Label send along for a specimen and examine it carefully. You will be surprised at its beautiful appearance, flexibility and the ease with which it can be affixed to any of your



It has all the advantages of the York Glass recess, but none of its disadvantages—moreover they are very durable, and cheaper, too—whilst any pharmacy in which they are used gains immensely in appearance and obtains the custom vouchsafed by many who look to a chemist's establishment to be as speckless as a museum,

APPEARANCE DRAWS CUSTOM QUALITY and SERVICE REPEATS

ADDRESS THE P/C TO CHRISTY'S, OLD SWAN LANE, LONDON - - E.C.







#### A Weekly Journal of Pharmacy and of the Chemical and Drug Trades. ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the Chemical, Drug and allied trades in the British Empire and other countries in the Old and New Worlds. It has a larger paid subscription circulation than any other Drug Trade Journal, and is the official organ of nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Lediac.

\*Subscription 10% a year in advance. Postal orders and cheques to be crossed \*Martin's Bank (Limited)." Terms for advertising can be obtained on application to the Publisher at the

#### Head Office: 42 CANNON STREET, LONDON, E.C.

Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines). Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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#### Summary.

Mr. Edmund White's experience in India is quoted on p. 65.

Some plain speaking by correspondents in regard to the "patcut" trade will be found on p. 74.

The attempt to amend the Dutch poison law has ereated a flutter in the pharmaceutical dovecots (p. 64).

The Bromine Convention is "off." Particulars about it and the cognate potash-industry are given on p. 61,

The embarge on the export of Tinnevelly senna and cinchona-bark from India has been removed (p. 71).

An Insurance Dispensing Conference of Lancashire authorities is fully reported on pp. 66-67, with statistical partieulars of special interest.

Germany's shortage of fats and oils, glycerin, nitrates, and sulphuric acid, all chemicals requisite for making ammunition, is the subject of our first editorial article

(p. 60). The Ayrshire Sheriff has held that if a Pharmaceutical Committee disallows payment of any items in an Insurance chemist's account, although justly charged, the Insurance Committee cannot pay the items (p. 54).

The Insurance Commissioners have not removed the Bow Drug Co., Ltd., from the Insurance dispensing list, but in a novel way require payment of 5l. by the company to the West Ham Insurance Committee (p. 60).

An application was made by Poulenc Frères for a licence to use the "418" patent, which belongs to the Farhwerks to use the "418" patent, which belongs to the Farbwerke Meister, Lucius & Brüning. Applicants were not able to complete the evidence at the hearing, and it is probable that an adjourned hearing will take place (p. 63).

Atropinc, cocaine, and acetyl-salicylie acid have further advanced, the scarcity becoming acute. Crude antimony, vanillin, and linseed oil are also dearer. Ammonia sulphate, tartarie acid, and caustie soda are firmer. Bergamot, lemon, orange, and turpentine oils are all casicr (p. 71).

# European War.

#### Pharmaceutical Roll of Honour.

Non sibi sed patria.-Cicero.

Non sibi sed patrix.—CICERO.

TWENTY-SEVENTH LIST.

BRINSON, Second-Lieutenant N. H. (cldest son of Mr. George Brinson, of the representative staff of Evans Sons Lescher & Webb, Ltd., Liverpool), 17th Batt. King's (Liverpool) Regiment (1st Pals' Battalion).

COSTIN, A. G. (lately with Mr. J. H. Herington, chemist and druggist, Dunstable), Royal Engineers.

EVANS, Lieutenant H. J., Ph.C., Haverfordwest, R.F.A. GOODFELLOW, Sergeant G., Ph.C., Harrow, R.A.M.C. GREGSON, W. A. (lately with Eardley & Furnival, pharmaceutical chemists, Sheffield), R.A.M.C., West Riding Divisional Field Ambulance.

Kydd, Second-Lieutenant Henry J. N., chemist and

Курр, Second-Lieutenant Henry J. N., chemist and druggist, London (of Arbroath), 11th (Service) Batt. West

Riding Regiment.

LAMPLUGH, W., Ph.C., St. Albans, 13th Batt. County of

London Regiment (Kensington Rifles).

NORTHEY, W. G., chemist and druggist, Maidenhead,
Maidenhead Company Central Association of Volunteer

Maidenhead Company Central Association of Volunteer Training Corps.

OPPENHEIMER, Kenneth W. (junior director of Oppenheimer, Son & Co., Ltd., London), Army Service Corps (for transport-purposes during the war).

QUINE. Stanley N. (lately with Mr. J. B. Pater, chemist, Broomhill, Sheffield), Legion of Frontiersmen.

RIDGES, R. II., Ph.C., of Wolverhampton, 4th London Field Ambulance, R.A.M.C. (T.) (Imperial Service).

ROYSTON, Gunner Charles Stewart, chemist and druggist (director of J. R. Cave, Ltd., chemists, Southport), 1st East Lancashire Royal Field Artillery.

SHEFFIELD, G. S., chemist and druggist, of Hertford,

East Lancashire Royal Field Artillery.

Sheffield, G. S., chemist and druggist, of Hertford,
Public Schools Battalion Middlesex Regiment.

Stafford, C. (with Oppenheimer, Son & Co., London),
signaller, H.M.S. Emperor of India.

Taylor, Second-Lieutenant F. T., 21st Batt. Manchester
Regiment (T.)

Regiment (I.)

TIPPER, Second-Licutenant B. C. C. (elder son of Mr. C. N. Tipper, Moseley Road, Birmingham, and nephew of Mr. Lawrence C. Tipper, M.R.C.V.S., of B. C. Tipper & Son, the Veterinary Chemical-works, Birmingham). 5th Son, the Veterinary Chemical-works, Birmingham), 5th Batt. Worcestershire Regiment. Second-Licutenant Tipper joined the Public Schools Battalion on the outbreak of war, and vent, on the nomination of his colonel, to Sandhurst, from which College he has now "passed out." WRIGHT, Sergeant E. J., Ph.C., of Felixstowe, Reserve Field Ambulance, Imperial Service.

Second-Lieutenant James F. Mackie, chemist and druggist, son of Mr. George Mackie, chemist and druggist, Edinburgh, is now attached to the 9th Battalion Royal Scots Fusiliers.

Edinbirgi, is now attached to the Stif Battanor Royal Scots Fusiliers.

The following additional members of the staff of Dakin Bros., Ltd., 82 Middlescx Street, London, E.C., have joined the Colours: A. Branch, Honourable Artillery Company, and F. Ewers, 34th Reserve Battery R.F.A.

Mr. Geoffrey Dakin, of Dakin Bros., Ltd., 82 Middlesex Street, London, E.C., who joined the Public Schools Battalion soon after the outbreak of war, and his brother, Mr. J. E. II. Dakin, have been granted commissions in the Motor Machine-gun Service, and are now in training at Bisley Camp.

The Mayor of Westminster (Councillor G. Booth Heming, J.P.) has established a corps entitled the City of Westminster Volunteers. The drills are held on Mondays, Tuesdays, Wednesdays, and Thursdays at the Westminster City School, Palace Street, under the supervision of Colonel J. Austin Carpenter, V.D. (late 3rd Royal Fusiliers). A number of well-known West-end pharmacists are members of the corps, and Mr. Charles Brookes, 6 Northumberland Avenue, W.C., will give information to any others who would like "to do their little bit" in this way.

Prohibition of Exports.

Prohibition of Exports.

In our issues of February 6 and March 20 we published revised lists of articles the export of which is prohibited or restricted. Further amendments and additions have now been made, by which methyl salicylate, thorium oxide, and other salts of thorium are prohibited to all destinations. Certain items in the list which are prohibited to all destinations abroad other than British Possessions and Protectorates have now been revised, and read as follows: Ammonia and its salts, whether simple or compound, other than ammonium nitrate, perchlorate, and sulphocyanide (the exportation of which is already prohibited to all destinations);

tanning substances of all kinds (including extracts for use in tanning) except chestnut extract, oak-wood extract, and valonia (the exportation of which is already prohibited to all destinations); all vegetable oils and fats (other than lieseed oil, boiled and unboiled, unmixed with other oil and not including essential oils), and all animal oils and tats.

#### Notices as to Exports of Chem eals, etc

GERMANY.—The exportation of the following articles is prohibited by a decree of March 3: Thermos flasks, lead and zinc ores of all kinds, stinging-nettles, boric acid and borax, liquefied chlorine, chrome alum. sunflower-seeds.

HOLLAND.—The exportation of nitric acid has again been

prohibited, the temporary exemption having been with-drawn. A decree of March 13 further prohibits the exportation of cocoa-paste, cocoa-powder, copper, and copper alloys. A Royal Decree, published in the "States Journal," March 5, authorises the duty-free importation into Holland of acctate of lime for the manufacture of acctone, provided that it has been denatured so as to render it unfit for the manufacture of household vinegar.

#### Belgian Doctors' and Pharmacists' Relief Fund

Belgian Doetors' and Pracmacists' Relief Fund
The subscriptions received from pharmacists this week
up to March 23 are as follows: Oxford and District
Chemists' Association (per H. C. Goodalı), 2l. 2s.; J. A.
South, 1l. 1s.; Gateshead Pharmacists' Association (per
A. D. Wyllie): A. B. Beatton, 10s.; J. Evans, 5s.; J. A.
Rees, 1l. 1s.; C. V. Musson, 5s.; Buckrose Pharmacists'
Association (per P. Hiwkins), 1l. 10s.; F. W. Scanlon,
10s. 6d. The following sums have been collected by Mr.
D. A. Thomas from the members of the Bath Pharmaceutieal Association: Steel & Marsh and staff, 1l. 8s. 6d.;
Hawes, Whiston & Co., 10s. 6d.; Luther Wilson, 10s. 6d.;
A. C. Olds & Co., 10s. 6d.; Tylce & Cooper, 10s. 6d.;
A. D. Hallett, 10s. 6d.; W. J. Hallett, 10s. 6d.; Davice
& John, Ltd., 10s. 6d.; Wilson & Dickinson, 10s. 6d.;
II. C. Broad, 5s.; H. Norris, 5s.; J. L. S. Gordan, 10s. 6d.;
A. B. Hall (Boots, Ltd.), 5s.; E. Loveless, 10s. 6d.; H. W.
Gedge, 10s. 6d.; H. C. Gray, 10s. 6d.; A. E. Mills, 10s. 6d.;
G. T. Kingston, 10s. 6d.; Pinch & Co., 10s. 6d.; R. H.
Moore, 10s. 6d.; Hodders, Ltd. (staff), 12s. 6d.; Cater,
Stoffell & Fortt, Ltd., 10s. 6d.—11l. 14s. 6d. Last week an
aeknowledgment in the subscription list as follows:
"Bengers, Ltd., 26l. 5s." should read "Benger's Food,
Limited." Subscriptions may be sent to Mr. Woolcock,
17 Bloomsbury Square, London, W.C. 17 Bloomsbury Square, London, W.C.

Searcity of Medicines in Holland.

In order to meet the difficulties caused by the searcity of medicines in Holland, the Rotterdam Section of the Dutch Medical and Pharmaceutical Societies appointed a Committee to confer with wholesale dealers as to the conservation of supplies. This Committee has now published a report, in which it is pointed out that it is essential that a report, in which it is pointed out that it is essential that physicians should exercise the strictest possible economy in prescribing, especially of those medicines the exportation of which is prohibited by the belligerent Powers, and that, wherever possible, drugs should be used in place of modern synthetic chemicals. The following medicines are becoming scarce: Camphor, opium and its derivatives, salicylic acid and its derivatives (e.g., diuretin and aspirin), aniline derivatives, iodine and its compounds, mercury and mercurials, salvarsan and neo-salvarsan, bromides and other mereurials, salvarsan and neo-salvarsan, bromides and other bromo-compounds, bismuth subnitrate, carbelic acid (pure bromo-compounds, bismuth submitrate, carbolic acid (pure and crude), castor oil, and soporifies, such as veronal and trional. The Committee suggests a number of substances which could be usefully employed, in certain cases, in place of the above-mentioned drugs without prejudice to the patient. Formulæ are given for a number of combinations illustrating the use of lacturarium, herbane, and alcounters in those of submit and scarbolic Ellipsia. elecampane in place of opium and morphine. Elder and chamomile tea, in combination with animonium acctate, are recommended as sudorifics, instead of salicylates, etc. Quinine sulphate or hydrochloride may frequently replace antipyrin, aspirin, or antifebrin, and a mixture of potassium acetate with preparations of squill or juniper and the like may be employed in place of diurctics, such as diurctin. Mercurials, iodides, and salvarsan should, it is stated, be reserved for special cases. The external application of iodine should be limited as much as possible, and, as a skin-stimulant, veratrine is said to give equally good results. The needless use of mercuric-chloride solution should be avoided in cases where solutions of lead or aluminium acetate serve the same purpose. Valerian-root, zine oxide and valerianate, and tincture of asafetida are recommended as suitable substitutes for bromides, which should be reserved for epileptics. Bismuth salts are extremely scarce, and tameraryily should not be prescribed for external use. avoided in cases where solutions of lead or aluminium acetate serve the same purpose. Valerian-root, zinc oxide and valerianate, and tincture of asafetida are recommended as suitable substitutes for bromides, which should be reserved for epileptics. Bismuth salts are extremely scarce, and, temporarily, should not be prescribed for external use, borie acid, zine oxide, and the like being recommended as

substitutes. For stomach-troubles sodium bicarbonate, and for intestinal disorders tannic acid or tannalbin, may be substituted. Vegetable laxatives, such as senna, frangula, caseara, and tamarinds, may be given for castor oil; and for soporifies, such as veronal, trional, etc., paraldehyde, chloral hydrate, and extract of Indian hemp are available. The need for some medicines is becoming acutely felt. Codeine is unobtainable at present, and the exportation of adhesive plaster from Germany is rigorousty prohibited, so that these also are not easily procurable. The whole-sale drug-houses, however, anticipate a change for the better at an early date.

Nitrog n Monopoly in Germany.

The German Reichstag Bill, to which reference is made The German Reichstag Bill, to which reference is made in an editorial article in this issue, authorises the Federal Council to introduce a commercial monopoly in nitrogen for the period down to March 31, 1922, and to frame the necessary regulations. The monopoly is to apply to (1) inorganic nitrogenous minerals; (2) nitrogenous combinations obtainable from natural products, as well as nitrogen combinations primarily produceable artificially from nitrogen; and (3) nitrogenous fertilisers produced under Nos. (1) and (2) or from ether matural's. The monopoly would only gen; and (5) nitrogenous fertilisers produced under Nos, (1) and (2) or from other materia's. The monopoly would only be extended beyond March 1922 on the basis of the adoption of a special imperial law. The preamble to the Bill states that German agriculture and industry, particularly the explosives-industry, have hitherto been dependent in a great degree upon foreign countries for supplies of nitrogeness subjustices of the state genous combinations, although large quantities were obtained in the country as by-products of coal-combustion. German chemists learned how to make nitrogenous compounds from the air, and after great trouble and financial sacrifices by the empire and by Prussia substitutes have been found during the war for the deficiency caused by stoppage of imports of Chile nitrate and other nitrogenous fertilisers, and a nitrogen-industry has been created which can meet the requirements of agriculture and industry in the future. The remunerativeness of the industry after the war must, however, be guaranteed, and this can only be assured by the establishment of a monopoly immediately. Hence the

Norway is the pioneer in this branch of technology, and it is since the International Congress of Applied Chemistry at Berlin in 1903, when the success of the Norwegian method was demonstrated, that German technologists took the matter up, the Badische Anilin- und Soda-Fabrik specially distinguishing itself in this regard. Dr. Berenthsen, of that company, demonstrated the German process at the 1909 Congress in London.—Editor C. & D.]

#### Personalia

The Government has appointed Mr. Max Muspratt. F.C.S., Liverpool, Chairman of the United Alkali Co. Ltd., to assume control of the production and distribution of raw material used in the manufacture of explosives.

Mr. B. Tilsley, formerly of Sheffield, who is serving with the R.A.M.C. in France, in an account of his experiences received in Sheffield, states that the roof of the dispensary to which he is attached was removed by a hunting shell.

bursting shell.

M. Charron, a Belgian pharmacist, who fled from Ghent on the arrival of the German invaders, and has been staying on the arrival of the German invaders, and has been staying at Clacton-on-Sea, has obtained a position at La Rainey, France. During his stay in England M. Charron has been entertained at Clacton by the local Relief Fund. When he arrived he was suffering from a burnt hand and foot, and three days after reaching England his little daughter developed scarlet fever. Since his stay at Clacton-on-Sea, Madame Charron has given birth to another little daughter. For the present Madame Charron and her children are remaining at Clacton-on-Sea, but hope soon to rejoin M. Charron. The Committee of the local Relief Fund has received a most grateful letter of thanks for their kindreceived a most grateful letter of thanks for their kindness to this family.

#### Miscellaneous.

HOT WATER BOTTLES FOR THE FRONT.—Sir Frederick Treves states that when the cold weather set in a request reached the Red Cross in England from France for hot-water bottles. The wire arrived at ten o'clock in the morning. and two hours later the bottles were on the way to France. This was only rendered possible by the foresight of a lady who during the autumn had collected 200 bottles from her friends, and who produced them at the critical moment.

F. H. Wall, R. H. West, and J. Thomson, Ltd. (Liverpool). Messrs. Mandleberg and the Irwell Eastern Rubber Co., Ltd., Manchester, have sent supplies of rubber goods.

WOUNDED SOLDIERS IN GERMANY. A "neutral" correspon-

WOUNDED SOLDIERS IN GERMANY. A "neutral" correspondent of "The Times" gives an account of his visit to German hospitals. He states that Germany has already cared for between 600,000 and 700,000 wounded in the various hospitals in the empire, and that it has been necessary to turn nearly every available building into a hospital. German wounded are well treated, but wounded soldiers of the Alies receive your different treatment. The head Gorman wounded are well treated, but wounded soldiers of the Alies receive very different treatment. The beds of the latter are crowded together, and the sheets are of coarso blue-and-white checked material, not over clean. The attendants are all men, and rarely understand the language or needs of their charges. The nurses of the German wounded are women selected for their vivacious appearance, the authorities being convinced that this contributes to the rapid convalescence of the men.

appearance, tho authorities being convinced that this contributes to the rapid convalescence of the men.

The "Karlsruhe."—We are indebted to Mr. Ernest Cresswell, Cresswell Bros.' Branch of the International Sponge Importers, Ltd., for a cutting that he has received from the firm's agent at Nassau, from the "Nassau Guardian and Bahama Islands' Advocate." of a paragraph regarding a Prize Court held there in November in regard to the launch of the German cruiser Karlsruhe, which was picked up off the Abaco shore in August last. The Court was the first to be held in the Bahamas for over 200 years, and is interesting from the fact that it will perhaps be the only part the Bahamas will play in this way in connection with the war. The Karlsruhe has been for the last few months a constant menace to British shipping in the Atlantic, having sunk or captured as many as thirteen vessels. Is it too much to hope that the Prize Court will be a presago of the capture of this Nemesis of the British merchant marine? To complete the tale, we may mention that the Admiralty has during the past week been able to announce that the Karlsruhe, about which there has been considerable mystery, was wrecked about the time that this Prize Court was held. Mr. Cresswell states that Abaco Island, one of the Bahamas group, is noteworthy from the fact that the best quality of West Indian sponges are obtained in the waters surrounding the island. obtained in the waters surrounding the island.

News from Austria and Germany.

The German Government states (according to the "Daily Mail") that the export of dyes will be prohibited before

VASELINE is scarce in Germany, and what there is of it costs 3m. per kilo. An imitation resembling paraffin pintment is now on the market.

Animal Charcoal for use as a remedy against cholera, dysentery, and other intestinal diseases should have its absorptive power determined with a 1.5-in-1.000 solution of methylene-blue hydrochloride. So it has been decreed by the Austrian Government, which had previously said a 14-ner-cent solution

a 1½-per-cent, solution.

BOYCOTT OF GERMAN-ENEW PRODUCTS.—In connection with the systematic boycott of patent medicines and trade-mark articles from England, France, and Russia (C. & D., March 6, p. 37), the Patent-medicines and Trade-mark Articles Committee of the Deutscher Apotheker Verein has been entrusted with the elaboration of a "plan de campagne," and has endeavoured in the first instance to secure the eo-operation of physicians. It will take some time to evolve formulæ for substitutes of equal value for a great many articles. Other pharmacentical associations have taken similar measures—c.g., the "Genossenschaft der Apotheker von Hamburg Altona," the Genossenschaft der Apotheker von Hamburg Altona, "the Genossenschaft der Apotheker und poseuschen Apotheker zu Breslau, and the Pharmaceutische Kreisvereine im Königreich Sachses. A list of the names of foreign patent medicines has been drawn up by the Committee in which the prescriptions published by the various Committees, which are effectual BOYCOTT OF GERMAN-ENEMY PRODUCTS.—In connection with drawn up by the Committee in which the prescriptions published by the various Committees, which are effectual substitutes, are mentioned. This list includes few English patent medicines as yet—c.g., Morison's Pills and Scott's Emulsion. The Austrian boycott of foreign patent medicines, especially of those originating from hostile countries (C. & D., March 6, p. 37), is proceeding on the same lines. A special Committee charged with publishing formulæ for substitutes has decided to publish a new edition of "Prascriptiones vienneuses" contaming formulæ which have already been elaborated Moreover, packing-materials resembling the originals will be sububled to members of the "Allg. Oesterr. Apoth. Verein." The Committee further proposes to establish a central laboratory for manufacturing on a large scale substitutes the preparation of which offers too many difficulties to pharmacists.

SPANISH LIQUORICE-ROOT.—The exports from Tarragona during 1913 amounted to 161 tons, against 105 tons in 1912; from Alicante 900 tons was shipped during 1913.

#### Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed Corner for Students, "The Chemist and Druggist," 42 Cannon Street, London, E.C.

Report on March Analytical Exercise.

THE powder distributed to students on February 23 consisted of equal parts by weight of bismuth oxynitrate, barium nitrate, and potassium nitrate. The calculated composition of such a mixture is:

Bi			 22.8
		 	17.5
			12.9
$NO_3$			43.1
OH			 3.7
			-
			100.0

The powder was almost entirely free from impurities, but

The powder was almost entirely free from impurities, but it gave indications of the presence of a trace of a chloride. Samples of the powder were distributed to thirty-three students, and fifteen reports were received in response. All who sent in reports succeeded in detecting the nitrieacid radical. The failures in the detection of the various metallic radicals were: Bismuth, 1; barium, 5; potassium, 3. Seven students failed to observe the evolution of water which the state of the students failed to observe the evolution of water which took place on heating the powder in a dry test-tube. The quantity of the evolved water was relatively small, however.

This exercise was simpler than some of its predecessors This exercise was simpler than some of its predecessors in the tournament series, a fact which is evidenced by the larger proportion than usual of scores which reach the nineties. Some preliminary tests gave valuable indications of the presence of bismuth, barium, and potassium, and of a nitrate or a nitrite, or of both. Hence in the systematic examination little was left to do but to confirm the presence of supported constituents, and to present the presence of supported constituents.

systematic examination in the was left to do but to commine the presence of suspected constituents, and to prove the absence of some others, which the evidence obtained from preliminary tests did not exclude.

More than one-half of the powder dissolved readily in water, only the bismuth oxynitrate remaining to be dissolved in dilute hydrochloric acid. The rapid and complete solubility of the powder in the latter acid with formation of a solution which remained perfectly clear on cooling, was reflected acidence that at west could be applied to the control of the control tion of a solution which remained perfectly clear on cooling, was sufficient evidence that, at most, only a small quantity of lead could be present, while appropriate routine treatment of the hydrogen-sulphide precipitate showed that lead was absent altogether. The complete removal of the bismuth as sulphide by means of hydrogen sulphide was not attained in all cases, though whether this was due to the too great acidity of the solution through which the gas was passed, or to the gas having been passed for too short a period to ensure excess, is uncertain. The result, however, was noteworthy, since the addition of ammonium chloride and excess of ammonia as group reagents produced a precipitate which, in more than one instance, was taken for aluminium hydroxide, while it really consisted of bismuth hydroxide. This was the most conspicuous error in connection with the analysis as a whole, and it should have been avoided by careful correspondents of this column, since it has been commented upon on many previous occasions when powders containing bismuth have previous occasions when powders containing bismuth have been set for analysis. When bismuth or lead is met with in the hydrogen-sulphide precipitate the precaution should be taken of ascertaining that the filtrate from this pre-cipitate is free from these metals before the reagents for the iron group are added; or, if this precaution has been omitted inadvertently, any white precipitate produced in the iron group should be examined with special care to make certain that it does not consist simply of bismuth or lead hydroxide.

The presence of mercury was reported in one or two cases. The sole reason for this appears to have been that part of the hydrogen-sulphide precipitate remained undissolved when treated with nitric acid, while no confirmatory reaction for mercury was obtained or sought for. It is a very common experience on boiling a sulphide precipitate with concentrated nitric acid that sulphur is liberated, and this agglomerates into small rounded lumps which enclosed portions of the aggeinate that have not yet been attacked. this agglomerates into small rounded lumps which enclose portions of the precipitate that have not yet been attacked by the acid. These lumps only undergo further attack extremely slowly, so that, when met with for the first time, their presence is liable to be attributed to part of the precipitate being insoluble in the concentrated nitric acid. The presence of mercury should not be reported, however, unless some quite distinctive reaction has been obtained.

Several students reported a chloride as a main constituent of the powder, some having obtained a curdy white

precipitate, insoluble in nitric acid, on adding silver nitrate to part of the sodium-carbonate extract after neutralisation or acidification with acetic or nitric acid, while one, at least, observed a similar precipitate on simply dissolving part of the original powder in dilute nitric acid and adding silver nitrate. On repeating the latter test, we obtained only a faint opalescence, which indicated that nothing more than an infinitesimal trace of a chloride could be present in the powder. We can only surmise that the abundant precipitates of silver chloride obtained by our correspondents were due to impurities in the sodium carbonate on the one hand, or in the nitric acid on the other, which were employed in making the tests. or acidification with acetic or nitric acid, while one, at

The First Prize for the best analysis has been awarded to JOHN T. BELL, 12 Niehol Street, Benwell, Newcastle-

The Second Prize has been awarded to

STANLEY WARD, 19 Avondale Terrace, Chester-lc-Street, co. Durham,

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about

five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

#### MARKS AWARDED FOR ANALYSES.

1. Correspon	attents i	uno are	unqualifica.			
John T. Bell	(1st 7	orize) 99	Norseman	* / *		90
Stanley Ward	(2nd 7	orize) 97	Onyx		***	86
Amateur						73
Fraises						71
E. W. Daniel			B. K. U.			64
Achene			Emanuel			
Cantium		90	Saliein			19

#### 2. Correspondent who is qualified:

Nescio ... ... 67

#### To Correspondents.

STANLEY WARD.—You overlooked the liberation of nitric acid when the powder was heated with concentrated sulphuric acid.

Amateur.—We were not able to confirm the presence of the trace of caleium, reported by you and several other students.

Fraises.—You should not omit to test for cadmium even when hydrogen sulphide produces a dark-coloured precipitate, since the latter may contain, admixed, a small pro-

tate, since the latter may contain, admixed, a small proportion of a yellow sulphide.

E. W. Daniel.—If you tested for eadmium, strontium, calcium, and magnesium, this should have been stated clearly in your report. The fact that hydrochloric acid did not yield an insoluble chloride was not a proof of the absence of lead in small quantity, since lead chloride is soluble to some extent in water and in dilute hydrochloric acid. aeid.

ACHENE.—A more complete preliminary examination would

ACHENE.—A more complete preliminary examination would have strengthened your analysis very considerably.

CANTIUM.—You found the powder to dissolve freely in dilute hydrochloric acid, and in the solution you detected barium. On the other hand, you obtained a precipitate on adding harium chloride to part of the sodium-carbonate extract acidified with hydrochloric acid, and you attributed this to the presence of a sulphate. Any sulphate must have come from the reagents—most likely from the sodium carbonate.

bonate.

Norseman.—You report definitely that moisture did not form on the sides of the tube when the powder was heated in a dry tube. We found, on the contrary, a slight, but nevertheless a distinct deposit.

Onyx and B.K.U.—The precipitate which you supposed to indicate the presence of aluminium consisted of bismuth hydroxide. You must either have discontinued the treatment of the original solution with hydrogen sulphide before excess of the gas had been passed, or too large a proportion of hydrochlogic acid must have been present. See the tion of hydrochloric acid must have been present. See the

general remarks above.

IGNORAMUS.—It was hydrogen sulphide present in a de-IGNORMUS.—It was nydrogen supported the powder to turn cidedly impure atmosphere which caused the powder to turn through the formation of bismuth sulphide. The endedly impure atmosphere which caused the powder to turn brown through the formation of bismuth sulphide. The barium salt in the powder was the cause of the green flame and of the precipitate with sulphurie acid which you observed. The reactions of bismuth salts and lead salts with hydrogen sulphide, potassium chromate, and ammonia solution closely resemble each other, but lead salts are not precipitated by water alone, while bismuth salts usually

SUMMA DILIGENTIA.—Heat a small quantity of sodiun arsenate in a dry test-tube, and you will learn that the non-formation of a sublimate does not prove the absence of arsenie. Although you obtained a precipitate on adding ammonium carbonate as group-reagent, you do not give

any account of your examination of it.

EMANUEL.—Read the reply to "Fraises."

SALICIN.—Prepare a similar mixture and practise upon it.

NESCIO.—Two-thirds of the powder dissolved readily in water, so that it was inexact to describe it as insoluble.

Read the reply to "Onyx" and "B. K. U."

#### Institute of Ophthalmic Opticians.

MEETING of the Council of the Institute of Ophthalmic Opticians was held on March 18 at the Holborn Restaurant, London, under the chairmanship of Mr. A. Upson.

A letter was read from Colonel Davies Sewell, Clerk to the Spectaclemakers' Company, thanking the Council for the resolution of condolence with him on the occasion of the loss of his son, Major Sidney Sewell, of the Royal Engineers, who was killed in action in France.

Mr, G. E. Houghton wrote resigning membership of the Council, giving as his reason that owing to exigencies brought about by the war he would be unable adequately to discharge his duties in that capacity. The Chairman remarked that in common with other public bodies the Institute suffered from the abstention of members on account of present conditions and from slightly decreased efficiency. Mr. Houghton had been an exceedingly useful member, and his colleagues were therefore anxious to retain his services. It was agreed that a letter be forwarded to Mr. Houghton in terms of the Chairman's observations.

Mr. James McBryde, Colchester, was elected a Fellow of the Institute.

It was decided to accept with regret the resignation of Mr. Robert Fairbanks, and to co-opt Mr. William Thomas Comer, Walsall, a member of the Council, in his place,

The report of the Finance Committee showed that under the General Fund the amount to the credit of current account was 134l. 14s. 1d. It was recommended that the sum of 25%, be transferred from the current to the deposit account of the Benevolent Fund.

The General Purposes Committee report showed that the question of the insurance of members had been under consideration, and that a meeting to discuss certain aspects of the question with the Solicitor would be held on an early date. This report was also adopted.

Later in the evening of the same day the tenth annual meeting of members of the Institute was held at the Holborn Restaurant, Mr. A. Upson presiding. annual report stated that, in common with most societies of a similar nature, the work of the Institute had been greatly interfered with by the war. It was therefore more than usually satisfactory to be able to report continued and steady progress. Membership showed a very satisfactory advance, there being a net increase of 46. At the date of drawing up the report it stood: Hon. members, 13; life Fellows, 28; Fellows, 552. Finance continued satisfactory, the sum of 101l. 17s. 11d. being carried to the accumulated income account, while the addition of 891. 5s. to the Life Fellowship Fund was the largest yet received in any one year. The reserve funds amount to 598l. 10s. The report was adopted. following were unanimously re-elected members of the Council: Messrs, Frederick W. Bateman, George Bennett, Arthur Wilson Boatman, Daniel Buchanan, Albert Jones, James Cassie Kidd, George Arthur Matthews, L. French, John Jacobs, and H. M. Selfe.

Persian Gulf, during 1913-14 amounted to 305 tons, against 376 tons in 1912-13 and 338 tons in 1911-12. The United Kingdom received 32 tons, against 104 tons, and India 255 tons, against 250 tons.

# English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Easter Holidays.

The offices of The Chemist and Druggist, 42 Cannon Street, London, E.C., will be closed from Thursday evening, April 1, until Tuesday morning, April 6.

The following business houses in London will close similarly (see also C. & D., March 20, p. 36):

John Bell, Hills & Lueas, Ltd., Oxford Works, Tower Bridge Road, S.E. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close,

G.C.
The Formalin Hygicnic Co., Ltd., 3 Lloyd's Avenue, E.C.
Goodall, Backhouse & Co., 54 Southwark Street, S.E.
T. Morson & Son, Elm Street, Gray's Inn Road, W.C.
Sparks, White & Co., Ltd., Tenter Street East, E.
A. Tompkins, Ltd., 386 City Road, E.
Mr. Vincent Wood, Vietoria House, Albion Place, Blackware Reider S.

friars Bridge, S.E.

Early-closing Association Conference.

A conference of representative traders and delegates from trade institutions, convened by the board of management of the Early-closing Association, was held in the Troeadero Restaurant, Piccadilly Circus, London, W., on March 23, Mr. John Hinds, M.P., presiding. The object of the meeting was to discuss and elucidate the difficulties in carrying out a resolution passed by the board of management on Fobruary 9 and confirmed at the annual meeting of subscribers on March 10, that the Association employ every legitimate means to secure an immediate closing of shops not later than eight o'clock on three nights per week, at nine o'clock on Fridays, and at ten on Saturdays, by means of (1) local voluntary agreements; (2) closing orders under the Shops Act, 1912; or (3) by seeking powers through new legislation by which the health of the rising generation may be safeguarded. The meeting passed resolutions: (a) pledging itself to support the Early-closing Association's present campaign to secure voluntary closing agreements; (b) calling the attention of the Home Secretary to the failure of the Shops Act, 1912, to secure earlier closing nightly of shops in London, and appealing to him to hold an inquiry with the object of promoting and facilitating the making of a closing order for an eight-o'clock closing throughout London; (c) requesting the Earlyclosing Association to call a national congress of trade institutions with a view to securing Government support for a Bill to amend and strengthen the Shops Act, 1912: (d) that an appeal be made to the Labour Members of Parliament asking them to impress on their constituents the necessity of shopping early; and (e) that the various Trade Associations of London be asked to co-operate in 'the movement. A vote of thanks to the Chairman terminated the proceedings.

Merehandise-marks Act.

The prosecution of offences under the Merchandisemarks Act, 1887, is in future to be undertaken by the Board of Agriculture and Fisheries in cases which relate to agricultural or horticultural produce or the produce of the fishing-industries and affect the general interests of the country or a section of the community or of a trade. It is intended to take up cases where false descriptions are applied to goods, especially descriptions indicating that imported goods to which they are applied have been produced in this country. The co-operation of local authorities, Chambers of Commerce, Agricultural Societies, etc., has been invited. The necessary regulations have been published as No. 49 of the Statutory Rules and Orders, 1914.

Preservatives in Raisin-wine.

The Public Health Committee of Bermondsey Borough Council has reported, in connection with the proceedings taken against a vendor of raisin-wine, which was certified by the borough analyst to contain 8.75 grains per pint of salicylic acid (C, & D., March 6, p. 42), that the manutacturers have now offered to put on all bottles of the wine a label stating that "in order to prevent fermenta-

tion after opening, the contents of this bottle are preserved with salicylie acid in the proportion of about 0.08 per cent." The Committee does not favour the proposition, and has called the attention of the Local Government Board to the result of this case, urging the necessity for the fixing of a standard for the amount of this preservative that may be used in articles of food.

Birmingham,

A City Arcade pharmacist has filled a large part of his window, which is arranged in recesses, with Thermos

flasks at a remarkably low price.

The second "Ucal" (United Chemists' Association, Ltd.) exhibition of preparations (proprietary, surgical, domestic, and cosmetic) is being held this week in the Grand Hotel, Birmingham. A similar Chemists' Exhibition was held in Manchester, and others at Leeds, Newcastle-on-Tyne, and other large towns are to follow. Mr. Harold Miller, the president and managing director, is assisted by a dozen of his colleagues, including Mr. J. G. Jackson (Sheffield). The excellent exhibit was inspected by a C. d. D. correspondent, and he learnt that "Ucal' has now 2,000 shareholders. He also reports that the exhibits greatly interested many visitors, including most of the prominent pharmacists of the Midlands and Committee members of the Association (who attended a meeting of the directorate on Thursday morning). were a score of tables groaning with the weight of the beautifully and tastefully got-up packages of all conceivable kinds of goods sold by pharmacists and a very effective mural decoration, consisting of mottoes printed on large cardboards, extolling the value of push in business. There was an effective representation of a window-display for a corn-remedy, also an electrically lighted scenic display of Cheltenham aperient water as bottled by "Ucal." Within an hour of the opening of the exhibition it was well filled with the local brotherhood. The attendants were most courteous and painstaking to ensure the success of the gathering, and several brought ladies to grace the proceedings. Mr. Crookes, a son of Sir William Crookes, O.M., expounded his colloidal metals, which are growing in use as remedial agents.

#### Sheffield.

Mr. Campbell Falconer, chemist and druggist, late dispenser at Jessop's Hospital, Sheffield, has acquired a wholesale and retail business in York,

Alderman Henry Dunn, pharmaceutical chemist, Shipley, was re-elected Chairman of the West Riding Education Committee at Wakefield on Tuesday last.

Mr. F. Goddard Roebuck, chemist and druggist, Abbeydale Road and Millhouses, Sheffield, has opened a branch at Totley, where there is a growing suburban population.

The Linnean Society has conferred the "Traill" award and gold medal on Leonard Doncaster, Sc.D., of Sheffield, for his work on protoplasm. Dr. Doncaster was recently nominated for election as a Fellow of the Royal Society.

Mr. Bernard Ellis, pharmacist and barrister-at-law, delivered an interesting lecture on "The Microscope as an Aid to the Detection of Crime," to the members of the local Microscopical Society, at the rooms of the Literary and Philosophical Society, on March 16,

The military authorities are taking over, wholly or partially, various institutions in Sheffield for the accommodation of wounded soldiers. The South Yorkshire Asylum, which will accommodate 2,000 patients, has recently been taken over, the dispensing staff being either transferred to other institutions or remaining under the military authorities, without loss of salary or service counting for superannuation.

Contracts for Drugs, etc.

The following information regarding contracts for drugs and other articles in which our subscribers are interested has been received during the past week:

Battersea Borough Council has been recommended to accept the following tenders for annual supplies: The Sanitas Co., Ltd., for disinfectants and formalin powder tin place of formalin tablets); and J. G. Ingram & Son, for ubber teats and washers

Boston Guardians.—Mr. T. B. J. Booker, chemist and druggist, for quinine (Is. 9½d. per oz.). Mr. E. A. Bailey appointed chemist for one year.

Obventry Guardians.—Robinson & Son, Ltd., Chesterfield,

for dressings.

Cranbrook Guardians.—Mr. A. J. Gray, chemist and druggist, Hawkhurst, for medical requirements.

Croydon Guardians.—Middleton Bros., Ltd., and J. Knight, for soap; Bovril, Ltd., for three months' supply of meat extract.

Dover Guardians.—Mr. A. L. Thompson, chemist and druggist, for chemicals (5 per cent. less than Allen & Hanburys' list).

Ealing Town Council.-Forbes. Abbott & Lennard, Ltd., for carbolic acid and carbolic powder: Young & Co., Ltd., for formalin solution; Sanitas Co., Ltd., for sanitas.

Evesham Guardians.—Mr. W. J. Craven, chemist and druggist, for drugs and chemists' sundries.

druggist, for drugs and chemists' sundries.
Fulham Borough Council has been recommended to accept the following tenders for annual supplies: Sanitas ('o., Ltd., for sulphur-cakes (15s. per cwt.), Sanitas soluble blocks (3t. 5s. per 100), and crude Sanitas (5s. 6d. per gal.); A. 'C. Young & Co., for carbolic powder (4s. 1½d. per wt.), permanganate of potash (11d. per lb. in cwt. kegs), and formalin 5s. 7d. per gal.); the Thalassol Manufacturing Ce., Ltd., for disinfecting-fluid (2s. per gal.); Lewton, Chambers & Co., Ltd., for Izal (5s. 6d. per gal.); Jeyes' Sanitary Compounds Co., Ltd., for disinfecting-fluid (1s. 6d. per gal.); Middleton Bros., Ltd., for perchlorade of mercury (4s. 5d. per lb.), ammonium chloride (5d. per lb.), Sanitas powder (1d. packets, 7s. 8d. per gross), and Sanitas No. 2 soap (28s. 9d. per cwt.).
Gloncester Guardians.—The Sanitas Co., Ltd., for dis-

Gloncester Guardians.—The Sanitas Co., Ltd., for disinfectant soap (28s. 6d. per cwt.), deodorant fluid (3s. 6d. per gal), and sulphur (12s. per cwt.); Mr. W. Walwin, for drugs and chemists' sundries.

Government Contracts. -Crown Agents for the Colonics.-Quinine, etc.: Howards & Son, Ltd., Ilford, E.
India Office.-Brushes: G. B. Kent & Sons, Ltd., 75 Farringdon Road, E.C. Crucibles: Morgan Crucible Co.,
Battersea. Turpentine: Price's Patent Candle Co., Ltd., Battersea.

Post Office.—Colza pil: Price's Co., Ltd., Millwall, E. Methylated spirit: Waters & Co., Ltd., Bateman's Row,

Post Office.—Colza oil: Price's Co., Ltd., Millwall, E. Methylated spirit: Waters & Co., Ltd., Bateman's Row, E.C.

War Office.—Brushes: J. Avons & Sons, Ltd., Trowbridge; Chas. Baker & Co., Walworth; Birmingham Royal Institution for the Blind; David Burrow & Sons, Ltd., Leeds: A. W. Cook, Norwich; Crowden & Garrod, Ltd., Borough; R. M. Elliott, Stockton-on-Tees; F. Foulger & Co., Borough; Thos, Goode, Ltd., Birmingham; Harbach-Young, Lye: J. S. Harrison, Clerkenwell: Hawley & Smith, Walsall: David Hayward, Ltd., Bloxwich; Henderson Bros, & Co., Ltd., Highbury; Hindes, Ltd., Kingsway; Charles Hoyland & Son, Ltd., Sehfield: Incorporated Association for Promoting the General Welfare of the Blind: H. W. Jones & Sons, Borough; G. B. Kent & Sons, Ltd., London; Liverpool Workshops for the Blind: G. Lovekin, Birmingham; S. Ludbrook & Co., Ltd., Mile End: H. S. Lythgoe, Liverpool; John Mason & Sons, Acton; John Nash, Watford: Neuhafer & Levi, Clapton; John Palmer, Ltd., Portsmouth: Phoenix Brush Co., Bermondsev; J. Postlerbwaite, Rochdale: J. Pritchitt & Son Chesham: Alex, Reid & Sons, Borough; R. A. Rooney & Sons, Walthamstow: J. Root & Son, New Southgate; Sharman Bros., Wellingborough; South London Brush Co., Ltd.; W. M. Strachan & Co., Ltd., St. Mary Axe; Joseph Taylor, Ulverston; Turner, Son & Co., Ltd., Clissold Park; H. W. Underwood, Shoreditch: United Institution for Blind, Deaf and Dumb, Leeds; Vale & Bradnack, Walsall: W. H. Vowles & Sons Ltd., Stonehouse: Ches. Watt & Co., Plymouth: F. Whiting, Old Kent Road. Calcium Carbide: Acetylene Hluminating Co., Ltd., Lambeth; Henry J. Condivent, Newton Abbott; H. Dalton, Skelmanthorpe: Imperial Light, Ltd., Battersea; Thorn & Hoddle Acetylene Co., Ltd., Camberwell, Crueibles, Plumbago, and Parls: Morran Crueible Co., Ltd., Battersea; Disinfectant: Jewes' Sanitary Compounds Co., Ltd., Plaistow; Pearson's Voisentic Co., Ltd., Hull. Grease, Anti-frost-bite: I. Kniebt Ltd., Silvertown: Lever Bross., Ltd., Botheres: Co., Ltd., Bethnal Green: The British Drug Houses, Ltd.,

Arthur Berton, Ltd., London; Burroughs Wellcome & Co., Dartford; Cuxson, Gerrard & Co., Ltd., Oldbury; Darton, Gibbs & Co., Oldbury; B. Lees & Co., Ltd., Manchester; Liverpool Lint Co.; S. Maw, Son & Sons, Aldersgate; Robinson & Sons, Ltd., Chesterfield; T. J. Smith & Nephew, Ltd., Hull: Southall Bros. & Barelay, Ltd., Birmingham Tables, Operating; J. Gibbons, Wolverhampton.

Great Yarmouth Guardians.—Mr. T. J. Woodcock, chemist and druggist, for chemists' goods.

Hashingdon Guardians.—Hall & Hamlyn, Ltd., Hull, for

Haslingden Guardians.—Hall & Hamlyn, Ltd., Hull, for water-beds.

Hendon Guardians.—The Sanitas Co., Ltd., for soap. High Wycombe Guardians.—Sanitas Co., Ltd., for dis-

Hull Guardians.—Sayers, gical and medicinal appliances.

Guardians.—Mr. F. A. Hanworth, Oulton

Lowestoft Guardians.—Mr. F. A. Hanworth, Oultons Broad, for chemists' goods.

Marylebone Guardians.—Ingram & Co., for waterproof sheeting (4s. 6d. per yard); Messrs. Warburg, for extract of malt and yeast.

of malt and yeast.

Metropolitan Asylums Board.—Perkin, Son & Co., Ltd., Hatton Garden, E.C., for clinical thermometers; the Sanitas Co., Ltd., for disinfectants; the Society of Apothecaries and The British Drug Houses, Ltd., for drugs. C. J. Hewlett & Son, Ltd., the Medical Supply Association, S. Maw, Son & Sons, for surgical appliances. Bellingham & Co., Ltd., for methylated spirit.

Milton Beris (Kant) Chardians, Mr. L. F. Frankly, Milton Beris (Kant) Chardians, Mr. L. F. Frankly

Milton Regis (Kent) Guardians.—Mr. J. E. French. chemist and druggist. for chemists' goods.
Newcastle (Staffs) Guardians.—Mr. C. J. Wain, for drugs

and dressings

Newport (Mon.) Guardians.—The Camphylene Co., Ltd., London, for camphylene.

Petworth Guardians.—Messrs. Percival, for carbolic soap-

(20s. 9d. per ewt.)

Romford Guardians -- Mr. W. S. Steeples, chemist and

druggist, Romford, for drugs, etc.
St. Paneras Borough Council has been recommended to accept the tender of John Knight, Ltd., for honey soap for six months (31. 6s. per cwt.)

Sedgefield Rural District Council.—Bainbridge & Finlay-

son, for drugs

Son, for drugs.

Smallburgh Guardians.—Mr. W. H. Hurn, for drugs.

Southamnton Guardians.—W. Bates & Co., chemists and druggists, for drugs and chemicals: W. Lisby, for carbolic soap; the Sanitas Co., Ltd., for toilet-soap.

Swaffham Guardians.—McDougall Bros., Ltd., for disinfectants for six months.

Upton-on-Severn Guardians.—Mr. H J. Aubrey, chemist and druggist, Worcester, for drugs and chemists' sundries. Warrington Guardians.—Mr. Harold Smith, appointed chemist for six months.

York Guardians.-F. Newey, chemist and druggist, for

disinfecting-soap.

Robinson & Sons, Ltd., have informed the Southwark Guardians that they can supply cellulose wadding. The Board referred the matter to the Infirmary Committee.

#### Jersey.

At a meeting of the States of Jersey held last week, several amendments to the regulations governing the practice of medicine and the sale of poisons in Jersey were adopted, on the motion of Jurat W. Duret Aubin, M.B. (Lieut.-Bailiff). The following substances were added to the schedu'e of poisons: Digitalis, strophanthus, veronal, proponal, medinal, sulphonal, and other similar preparations.

Miscellarcous

The Wellcome Historical Medical Museum, 544 Wigmore Street, London, W., will be closed for cleaning from April 1 to April 19 inclusive.

April 1 to April 19 inclusive.
Poisons and Pharmacy Act.—Agri-horticultural poisonslicences have been granted by Tynemouth Town Council toJ. A. Ord. J. T. Smurthwaite, and W. B. Smurthwaite,
Miss M. F. Jones, assistant-dispenser at PaddingtorParish infirmary, has resigned her appointment. The
resignation has been accepted by the Local Government

A fire occurred at the premises of Mr. A. H. Molsor chemist and druggist, 6 New Road, Spalding, on March 16, when considerable damage was done to the building and

Mr. A. H. Willson dispenser to the Stepney Guardians, Mr. A. H. Willson, dispenser to the Stephey Guardians, has passed the qualifying examinations in medicine and surgery, and has received the congratulations of the Guardians' Dispensary Committee on his success.

Three poisoning fatalities (suicides) have been reported during the week, the poisons employed being ammonia, carbolic acid, and potassium cyanide. The cyanide was

purchased from a chemist under the pretence that it was to be used for cleaning jewellery.

The chemists in Aston, Lozells, Perry Bar, and Witton

The chemists in Aston, Lozells, Perry Bar, and Witton have agreed to close their pharmacies at 9 P.M. cach evening except on Friday. (9.30 P.M.) and Saturdays (11 P.M.). They will also close for the whole day on Easter Monday, Whit Monday, August Bank Holiday, and Christmas Day. Mr. R. C. Walshaw, Huddersfield, in his capacity as President of the National Chamber of Trade, paid a visit to the Lancaster Chamber of Trade on March 25. He addressed the meeting on the objects and aims of the National Chamber of Trade. Several local chemists were present.

At the Pontypridd County Court last week, Mr. W. D. At the Pontyprida County Court last week, Mr. W. D. Thomas, chemist and druggist, Cardilt, sued Mr. Alexander Burgoyne, motor-car proprietor, Pontypridd, for 30l. 2s. in respect of damages to his motor-car, aneged to have been done by a car of defendants. Judge Bryn Roberts decided against the plaintiff.

Ett's Cotlege.—A party of Major, Minor, and Hall students of this Collego visited the laboratories of The British Drug Trouses, 1td., on March 18, by invitation of the directors. The party, numbering fifty, were welcomed on arrival by Mr. C. A. Hill, B.S., F.L.C., and were conducted through the various departments. The visit proved prontable and interesting, and at its conclusion the thanks of the students to Air. Itill and the directors were voiced by the Principal (Mr. E. E. Elt, B.Sc.).

Liandrinded Wens,—"The Times, in one of its series of articles on British Spas, states that Llandrinded Wells possesses certain qualities which entitle it to special conpossesses certain qualities which cuttie it to special consideration at the present time. The surrounding region is peculiarly rich in mineral waters, and the springs show an extraord-mary variety of medicinal properties. They include a "radium-sulphur" water, a lithia-water, a magnesia-water, and an iron-water, so that a wide range of selection is offered. These waters afford means of treating chronic conditions, such as gout, dyspepsia, and anemia, and are useful in cases of diabetes and kiduey-disease. and are useful in cases of diabetes and kidney-disease. A combination of the sulphur and saline waters is particularly combination of the sulpliur and saline waters is particularly efficacious in gout, curonic rheamatism, and even in the early forms of rheamatoid arthritis. For anomic patients the iron and chalybeate waters afford a valuable natural tonic, and the bracing atmosphere quickly reacts on an enfeebled constitution. The spanis essentially a summer one, the season lasting from May to October. Outdoor amusements are abundantly provided for, and one of the chief attractions of Llandrindod Wells is that it is free from the conventionalities of a fashionable span combining, as it aftractions of Llandrindod Wells is that it is free from the conventionalities of a fashionable spa, combining, as it does, the pleasures of village life with the benefits of a "cure." At present the spa is given over to members of the R.A.M.C. who are in training there, but it is expected that a month hence the soldiers will be under canvas, and the spa will then be open for the reception of visitors. There are indications that the present season will prove to the the most successful yet experienced. be the most successful yet experienced.

Private Arrangement.—The creditors of J. S. Butterworth, Ltd., met at the offices of the liquidator, Mr. Clifford Atkins, Oldhum, on March 20, when a statement of affairs was submitted showing liabilities 2741. 1s. 7d. and net assets 2731. 9s. 3d. Mr. J. S. Butterworth purchased the business from the trustee of Mrs. Webster for 1301., and, as he was unqualified, registered a company (C. & D., January 4, 1913, p. 41), with a capital of 3001., he holding 289–17. shares, Mrs. Butterworth ten shares, and Mr. H. Jaeques, chemist. Middleton, one share. A qualified man was engaged at 31. a week. The debtor estimated that he had drawn 11. a week, and a boy had also been paid 5s. a week. The business suffered greatly by opposition, the takings falling from 151. a week to 5011. odd in 1913 and 6341. in 1914. In the latter amount, bowever, was included 1001. said to be lent by Mrs. Sutcliffe, and 1301. from the sale of a business at Lees Road, Oldham, owned by Mr. J. S. Butterworth. The rent of the premises was 361, per annum The liquidator has carried on the business for the past Private Arrangement.—The creditors of J. S. Butterworth, The liquidator has carried on the business for the past fortnight, during which period the takings have been only fortnight, during which period the takings have been only 1l. 9s. 4d. It had therefore been decided to close the concern, and endeavour to dispose of the assets. It was decided to confirm the appointment of Mr. Clifford Atkins as liquidater. The creditors include: Clay, Dcd & Co. (22'). J. Waterhouse & Sons, Ashton-under-Lyne (10l.); Baiss Bros, & Stevenson, Ltd. (5l.); Stevben Smith & Co., Ltd. (8l.); D. & W. Gibbs, Ltd. (13l.); Parke, Davis & Co. (3l.); W. Cartwright, Ltd. (6l.); Wigglesworth & Co. (4l.); Ashton & Parsons, Ltd. (7l.); Granville Wood & Co. (8l.); J. Townsend & Sons (5l.); Erasmic Song Co., Ltd. (3l.); Pharmaceutical Society of Great Britain (20l.); Hough, Hoseason & Co. (3l.); A. Wander, Ltd. (3l.); J. Timson & Co., Ltd. (10l.).

#### Irish News.

Subscriber- are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharm coutiest society of Ireland

At the sessional examination of the Materia Medica Class at the Society's School the first prize was awarded to Mr. John Healy and the second prize to Mr. John Lyons. The new session will commence on April 1.

Drug and Surgical-appliance Contracts.

The following further contracts for the supply of medicines and medical and surgical appliances to Irish public bodies-Boards of Guardians unless otherwise statedhave been declared:

Umon	Medicines	Surgical Appliances
Abbeyleix Athlone Ballinrobe Ballyeastle Ballymoney Bell' st Carrickmaeross Cashel	Boileau & Boyd, 233 % Boileau & Boyd, 233 % Boileau & Boyd, 233 % Boileau & Boyd, 233 % Boileau & Boyd, 224 % Boileau & Boyd, 224 % Boileau & Boyd, 234 % Boileau & Boyd, 234 %	Same contractors, 23\(^3\) // Fannin & Co., 22\(^3\) // Adamson & Co., 20\(^3\) // S. Connor & Sons, 22\(^3\) // J. Clarke & Co. Fannin & Co., 20\(^3\) // S. Connor & Sons, 21\(^4\) // S. Connor & Sons, 21\(^4\) // Fielding's Pharmacy,
Cashel Caven Clogheen	Boileau & Boyd, 233% Boileau & Boyd, 221%	25½% J. Clarke & Co., 27½% Fredding's Pharmaey, 25½%
Clones Cookstown Dublin S.) Dundalk	Boileau & Boyd, 24% Boileau & Boyd, 374% Boileau & Boyd, 274% Boileau & Boyd, 254%	J. Clarke & Co., 27½% J. Carke & Co., 28% Fannu & Co., 2½% S. Connor & Sons Same contractors, 23½%
Enniscorthy  Gorey  Kells  Kilkemry  Killala	Boileau & Boyd, 234 % Boileau & Boyd, 234 % Boileau & Boyd, 234 % Boileau & Boyd, 234 % Boileau & Boyd, 204 %	Same contractors, 25 <sup>3</sup> / <sub>4</sub> % Fannin & Co. Same contractors 25 <sup>3</sup> / <sub>4</sub> %
Larne Limavady Lurgan Mohill	Boileau & Boyd, 25½ % Boileau & Boyd, 24 % Boileau & Boyd, 26¼ % A. Burns. 17½ %	J. clarke & Co., 30% J. Clarke & Co., 28% Fannin & Co., 21%
Wonaghan Wountmellick Oldesstie Schull	Boileau & Boyd 24% Boileau & Boyd Boileau & Boyd, 23\(^2\)% Cork Chemical and Drug Co., 21\(^1\)4%	S. Connor & Sons 22½ % same contractors fannin & Co 22½ % Fieldin.'s Pharmacy, 25½ %
Skibbereen Swinford Trim	Cork Chemical and Drug Co., 22½ % Boileau & Boyd Boileau & Boyd, 23¾ %	Fielding's Pharmacy, 25% Adamson & Co. Same contractors 233%
Tullamore Waterford (A-ylum) Wexford	Boileau & Boyd 233% Boileau & Boyd Boileau & Boyd, 27½%	Same contractors, 26%

Boileau & Boyd and Adamson & Co. tied as regards price in their tenders for appliances to the Swinford Board of Guardians, but Adamson & Co. won the contract on a toss. They also tied at the Castlerea Board of Guardians for appliances, but as Adamson & Co. were the old contractors and gave satisfaction, they were given the contract.

At the Mohill Board of Guardians the tenders for the supply of drugs were: Boileau & Boyd 20 per cent. discount; Summer & Co., Liverpool. 17½ per cent.; and A. Burns, 17½ per cent. The contract was given to the last-named on the question of convenience.

Brevitles

Willie Tyrie Turner, eldest son of Mr. J. Tyrie Turner, Ph.C., Carrick-on-Suir, has passed the Preliminary examination of the Royal College of Physicians and Surgeons of Ireland.

At co. Antrim Assires in Belfast on March 19. before Mr. Justice Molony, Charles V. Bolton, Ph.C., 7 Market Square, Lisburn, appealed against a decision of the County Court Judge, sitting at Belfast, granting a decree for 7l. 7s. 3d. to Edward Taylor & Co., 50 and 52 Hanover Street, Liverpool, for goods sold and delivered. After hearing the evidence his Lordship affirmed the decree of the Court below,

At the meeting of the Cork Board of Guardians. Mr. Fitzpatrick moved that an external apothecary [dispenser] be appointed at 100l, per annum, rising by five annual increments of 10/. each. In view of several Guardians' opposition, the resolution was withdrawn. The Clerk intimated that Mr. O'Sullivan had been appointed temporarily for six months, but his appointment had not yet been sanctioned by the Local Government Board.

At a meeting of the General Committee of the Chemists and Druggists' Society of Ireland, held on March 17 at 11 Waring Street, Belfast, the President (Mr. Samuel McDowell) in the chair, the following Committees were appointed for the ensuing year : Law and Parliamentary-Messrs, S. Suffern, W. Haslett, J. Walsh, S. Gibson, J.P., J. D., Carse., Finance—Messrs, W. J., Rankin, W. Jamison, S. Gibson, J.P., J. Walsh, and J. Frackelton. Rooms and Social-Messrs. W. J. Gibson, D. O. Perry, Geo. Johnson, J. Frackelton, and W. E. Wilson. It was arranged to hold a whist-drive in the rooms on March 31.

#### Apothecaries' Hall of Ireland.

Members of this Hall celebrated St. Patrick's Day by Members of this Hall celebrated St. Patrick's Day by a most enjoyable dinner, held at the Gresham Hotel on March 17, by invitation of Dr. J. C. McWalter, Governor of the Hall. There were many distinguished guests, including the President of the Pharmaceutical Society and several members of Council. Dr. McWalter presided. Dr. Cox proposed the toast of "The Day We Celebrate," which was responded to by Professor Magennis. Count Plunkett proposed "Tho Irish Universities and Colleges." The Provost of Trinity College, in replying, said he had a peculiar connection with that company and gathering, being by long tradition an apothecary. The Could, of Apothecaries was founded in the eighteenth said he had a peculiar connection with that company and gathering, being by long tradition an apothecary. The Guild of Apothecaries was founded in the eighteenth century. One of the three men who represented the Guild of Apothecaries in the ceremony of riding round the boundaries of the city was his great-grandfather, John Pentland, who transmitted the honour to his son, also a medical man; and so by right of birth the speaker belonged, as a Freeman of the City of Dublin, to the Guild of Apothecaries. He felt the greatest honour in helonging to that caries. He felt the greatest honour in belonging to that caries. He felt the greatest honour in belonging to that ancient and famous Guild, and he expressed the hope that under the present Governor the Hall would maintain its great traditions. Sir Joseph McGrath, Registrar of the National University, said they had now the assistance on their Council Board of Dr. McWalter. Sir Lambert Ormsby expressed regret that the Joint Board of Examinations of the Royal College of Surgeons and Apothecaries' Hall did not continue its existence; on the part of his Corporation, he was always pleased to be identified in any possible way with the Hall. He congratulated them on having such a representative as Dr. Edward Magennis, who at the last meeting of the General Medical Council made a most pleasing impression on the members. The Hall would be safe in his hands. After a number of other toasts had been submitted and honoured. Sir Charles Cameron proposed the health of Dr. McWalter, and paid a high tribute to the Governor's energy and ability and powers of study. The first shelter of the Hall, he said, was in the Royal College of Surgeons, a connection that began in 1792, when the Hall, largely through the instrumentality of the Royal College of Surgeons, got the charter. Dr. McWalter replied. ancient and famous Guild, and he expressed the hope that

## Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

#### Aberdeen and the North.

Turriff has lost three resident doctors by death within the last few weeks. Dr. Mortimer, who died most recently, was a brother of Mr. D. A. Mortimer, pharmacist, Broughty Ferry.

In the recent engagement at Neuve Chapelle Corporal Adam Alexander, apprentice chemist, of the 6th Gordon Highlanders, the son of the late Mr. Alexander Alexander, chemist, Alford, was wounded.

Appeals are again being made on behalf of the Banffshire Branch of the Red Cross Society for many articles sold by pharmacists, including beef jelly, Benger's Food, Horlick's Malted Milk, tooth-brushes, combs, toiletpaper, and the like.

#### Countess as Chemist's Assistant.

The latest ingenious scheme "to raise the wind" in aid of war funds is that of the Countess of Kinnoull, who on Thursday and Friday has been acting as an assistant in Ferguson's Pharmacy, Scott Street, Perth (which has been lent to her). Along with assistants her Ladyship. has been selling perfumes, and the whole of the profits are to be devoted towards providing comforts for British wounded soldiers in Perth military hospitals.

It is rumoured that Belgian workers now residing in Edinburgh are engaged in the manufacture of vacuum

Local pharmacists are becoming acquainted with metric. prescriptions through the printed prescription-forms of the Edinburgh Royal Infirmary.

The recent large advance in the prices of photographic plates has practically put an end to amateur photography in the Scottish capital. Several local chemists report that soldiers are the only steady purchasers of photographic goods at present.

#### Fife.

Fife chemists have recently had to refuse to supply methylated spirit to many obvious drinkers.

There is now quite a bond of brotherhood between military doctors and chemists in the military areas. The medicos seem to feel "at home" at the sign of the mortar and pestle.

Winter specialities are now disappearing from thewindows and their places taken up by salines, bloodmixtures, and spring tonics. Hat-dyes occupy a front position in many windows.

At a recent meeting of Leven Town Council it wasagreed to hand a cheque for 7l. 10s, to Mr. J. Buchanan, chemist, in payment of his claim for damages to premises sustained in the anti-German riot last September.

Scotland cannot now boast of a medical man to every 500 of the population. The Scottish Medical Service-Emergency Committee is appealing to retired doctors to come forward and assist in practice or in colleges, so greatly have the ranks been reduced owing to members joining the Army. The Committee has also appealed to the public to avoid unnecessary night calls. Chemists and druggists can do much in regulating the unnecessary night calls made upon the medicals.

# French News. (From the "C. & D." Paris Correspondent.)

Prisoners Released.—A certain number of members of the French Army Sanitary Service, taken by the enemy as prisoners of war, have been released after some six weeks' captivity at Crefeld, and have returned to France. These include six military pharmacists, MM. Dubois, Eliet, Gruelle, Gourdain, Molenard, and Neau.

M. Pauleau, recently appointed manager of the Central Army Pharmacy at the Invalides, was latterly head pharmacist at the Military Hospital St. Martin, Paris, and is a "first-class principal pharmacist" (rank corresponding to colonel). He took part, as pharmacist-major, in the 1887 Tonkin campaign and the Madagascar Expedition of 1895.

Among the Alien Enemy Firms whose French businesses have been sequestrated under the recent decreo.

Lakya (pharmaceuticals), Paris.

Remieke (pharmaceuticals), Rue Ste. Creix de la Breton-

nerie, Paris.
Société d'Aluminium and Produits Chimiques de l'Eurce (Lowenthal, representative, 84 Quai de Jemappes), Paris.
Bayer & Co. (chemicals and pharmaceuticals), 5 Citó-Paradis, Paris.

Muller (x-ray tubes), 201 Rue de Charenton, Paris.
Assenheim & Steeg (laboratory and pharmacy plant),
11 Rue de la Perche, Paris.

Rohm & Haas (chemicals), Lyons.

Merck, of Darmstadt (chemicals), Montereau. Compagnie Parisienne de Couleurs d'Aniline, Creil.

Stretz (surgical bandages), Rue des 3 Cailloux, Amiens, and three pharmacies

Jean Knappert, 63 Rue Damrémont, Paris. Kemn, International Pharmaey, Nice. Zimmermann, Pharmacie Anglaise, Nice.

There is a subtle humour about this "English Pharmacy" kept by a German. Le drapeau couvre la Mer-

PILLAGE OF A LORRAINE PHARMACY.—The "Journal" publishes some interesting notes compiled by M. F. I. Mouthon (a well-known Parisian journalist) from the verbal narrative of two French prisoners of war who managed to make their escape—Tristan Bonnamour du Tartre, of the 29th Chasseurs, and Georges Prieur, of the 151st Infantry. Both wounded, they were captured in an ambulance in the Vosges and conveyed to Conflans (Lorraine). They are-and always were-well and often kindly treated, though they can see the smoking ruins of Jarny and the town is full of German soldiers.

"In the daytime those who are well enough take the "In the daytime those who are well enough take the air in the garden, where they are the object of the curiosity of the 'Boches.' Above the walls of the garden we see their round faces, red with drink. They have pillaged the cellars, and are continually drunk. But wine softens their sentiments, and they insist on our accepting bottles, which sentiments, and they insist on our accepting bottles, which they pass to us over the wall. And as the neighbouring house, which they are pillaging, happens to be a pharmacy, and the cellars are full of pharmaceutical products, they offer us all sorts of things—bottles of mineral water, quininewine, syrups, and even glycerin! They brandish them triumphantly while rubbing their stomachs and grunting, 'Gut! Gut!' This state of intoxication is general and constant. The officers have requisitioned the champagne and superior wines, leaving the rest to their subordinates. These beer-drinkers have never had such a fête. On every occasion since, when we have been witnesses of useless exoccasion since, when we have been witnesses of useless ex-cesses and eruelties, we have always noticed that drink was the cause, if not the excuse. They looted on principle and killed through drunkenness."

# South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

#### Cape Province.

P.A.T.A.—Mr. Blako Jardine has resigned his pesition as Secretary of the Proprietary Articles Trade Association of South Africa, and severs his connection with that body at the end of March.

War's Effects.—At the moment, writes a correspondent, wholesalers are finding great difficulty in filling orders for certain lines, there being no stocks in Cape Town. This is put down to the congestion in British ports. Importers generally are finding great difficulty in getting goods out. There seems also to be a dearth of qualified assistants; advertisements have been appearance for the part of t There seems also to be a dearth of qualified assistants; advertisements have been appearing very frequently lately in the local papers, and a good many chemists are complaining that they cannot get men. This may be only a temporary shortage, or may be due to the fact that fewer men are coming from Home than formerly, now that better salaries are obtainable in England.

#### Pharmaceutical Society of the Transvaal.

A GENERAL MEETING was held at the Grand National Hotel, A GENERAL MEETING was held at the Grand National Hotel, Johannesburg, on February 25. About forty were present, among them being Messrs. H. Wheildon (President), J. Main (Vice-President), B. O. Jones, C. Keir, E. L. Ralling, A. Purnell, A. Rennie, W. Whyte, J. S. Sanderson, H. M. Hetherington, P. A. Barker, L. R. Tibbitt, A. A. Bones, — Anderson, J. Gellately, J. M. Anderson, E. H. Simpsea, A. Macdonald, Jas. Johnston, W. H. Cross, G. W. Mack, J. M. Braes, P. W. Drunmond, F. E. Turner, Alex. Anderson, E. R. Bull, G. R. Birkett, R. A. King, F. H. Dixon, and F. G. Mansfield (Assistant Hon, Secretary). tary).

The business before the meeting was to discuss the advisability of revising the retail price-list. The Chairman, after expressing gratification at the excellent attendance, and particularly at the presence of three Pretoria chemists, briefly reviewed the history of the "Blue List." and the difficulties which had arisen through the carelessness of certain chemists in neglecting to enforce the surcharges

made by the Committee after the outbreak of war. After considerable discussion, the following resolutions

That a Committee be appointed, with instructions to meet and revise immediately the retail price-list; and that until the revision is complete the present list will remain in force.

That the Committee be instructed to embody in their revision as far as reasonable the surcharges at present in force, but that in competitive lines sold by general trades a free hand be left to sellers.

That a Committee of seven be appointed to revise the

That a Committee of seven be appointed to revise the prices and publish the same.

That the Committee be instructed to publish the list in a cheap form, and to send a copy per registered post to every chemist's business in the Transvaal.

The following were elected to the Committee: Messrs, R. A. Barker, A. Rennie, A. Purnell, G. W. Mack, J. S. Sanderson, G. Gunn, and W. Whyte.

The second item on the agenda was with regard to the

question of allowing chemists to give purchasers of quantities of half-a-dozen or more of any one article a discount.

A discussion resulted in the following resolution being earried:

That the penalties clause of the regulations of the pricelist be amended by substituting the words "A minimum sum of 5l., and not exceeding 25l., at the discretion of the Committee," for "A sum of 25l."

A discussion was then initiated by Mr. B. O. Jones with reference to the alleged practice of wholesalers in supplying the general public with goods at wholesale prices. After remarks by Messrs. King, Johnston, and Main, the subject dropped. A vote of thanks to the chair, proposed by Mr. King, brought the proceedings to a close.

#### India and the East.

(From the "C. & D." Correspondents.)

Sanatogen.—Lively correspondence has taken place in the "Advocate of India" between the Indian agent for sanatogen (Dr. John Macdonald Moore) and a correspondent signing himself "J." The Secretary of the Bombay Presidency Trades' Association has raised the question of the ownership of sanatogen and the ultimate destination of the profits.

BAZAAR BUSINESS is improving gradually (writes a Bombay correspondent), the dealers having now received consignments, and the high prices prevailing since the outbreak of war are much lower, this applying particularly to galenicals. The general state of congestion at the Port of London is being felt in Bombay, and the clearing agents are having an unhappy time owing to the confusion.

ON THE ROAD.—Mr. Lewis McLeod, representing Evans Sons Lescher & Webb, Ltd., was in Bombay when the mail left.—Mr. D. McLeod, representing C. J. Hewlett & Son, Ltd., has left Bombay for Egypt.—Mr. A. Macintosh Stewart, F.C.S., was in Bombay when the mail left.—Mr. S. Figgis, of Samuel Figgis & Co., produce-brokers, London, is touring in Cevlon on his return from the Straits Settle-

INDIAN OPIUM.—The Government of India has announced an offer to purchase 5,600 chests of Malwa opium during the spring, provided the quality and price are right. The Government states that the general procedure will be that adopted in the case of purchases made in 1913. One object of the purchase will be to provide a legitimate outlet for accumulated stocks, and therefore opium of recent produc-tion will be mainly or wholly excluded.

THE QUESTION OF COMPULSORY SERVICE among European British subjects in India is discussed in the "Statesman, but, so far as the drug-trade is concerned, the general view is that the scheme is not workable, assistants for India being very difficult to obtain as it is. Colonel W. T. Grice, pharmacist, and senior partner of Smith, Stanistreet & Co., Calcutta, while expressing a favourable view of compulsory volunteering," and that the time was entirely inopportune for any such scheme as that which has now been proposed. If compulsory service was introduced, and the "volunteers" vorm to sow when needed in the Calcutte are able at were to serve when needed in the Calcutta area only, all would be well and good, but if every "volunteer" under the compulsory system was expected to serve anywhere when required, difficulties would inevitably arise. As an illustration of this, he referred to the case of his own firm, where every specialist would be liable for service, with the result that business would be at a standstill.

# Legal Reports.

#### Trade Law.

Medicine-stamp Acts.—At Newport (Mon.) on March 17, Harry Williams, herbalist, Newport, was summoned for selling a preparation labelled "The Marvel Blood, Liver, and Kidney Mixture," and a second preparation designated "The Poor Man's Friend," neither of which was stamped. Defendant, it was stated, had been warned that he could not sell the preparations unstamped. The Magistrates imposed a penalty of 21, 2s, in each case.

The Magistrates imposed a penalty of 2l. 2s. in each case. **False Warranty.** At the Lercestershire County Police Court on March 20, Percy Morris, trading with Sidney Morris as Morris' Botanical Institute, wholesale chemists, Kingston Road, Leicester, was, under Section 20 of the Sale of Food and Drugs Act, 1899, fined six guineas, and costs, for giving a false warranty in respect of some sweet spirit of nitre, which was sold to Stanley Toon, a Thurmaston shopkeeper, last December. It was marked B.P., but Toon was convicted for selling it (C. & D., March 6, p. 42). Defendant now said that he dealt with wholesale places in Leicester whose reputation was so good that he places in Leicester, whose reputation was so good that he had no doubt as to the qualities of the goods. B.P. was put on because he had no doubt the spirit was up to the required standard.

Is Olive Oil a Lubricant ?- At Chichester on March 20, Thomas Tregear, Bognor, was summoned, under Section 6 of the Sale of Food and Drugs Act, 1875, for selling olive oil which the public analyst certified to consist of mineral oil and devoid of olive oil. Mr. Buckwell, for the defence, submitted that there was no case for him to answer, as olive oil is not necessarily a food. They sold it as a lubricant. The Magistrates refused to accept this contenlubricant. The Magistrates refused to accept this contention. Among the witnesses for the defence was Mr. William Claude Jago, analytical chemist, Brighton, who said that if he asked for a flask of olive oil he expected to get a lubricant. The Bench convicted, and imposed a fine of 3L, and the costs, including special fee for advocate. On the application of Mr. Buckwell, the Magistrates agreed to

Marshall v. Macfarlane and others.-This ease was Marshall v. MacCarlane and others.—This case was heard in the Lord Mayor's Court, London, on March 18 and 19, by the Common Serjeant (Str F. Bosanquet, K.C.) and a jury It was a claim made by Mr. Regmald Marshal, F.C.S., analytical chemist, 20 Callum Street, E.C., against Mr. A. P. MacCarlane, Mr. Sidney John Ross, and Mr. Harry Schofield, owning or controlling certain patents known as the Ross-Schofield patents, and carrying on business at 117 and 118 Leadenhall Street, E.C., for 5 per cent. commission (55l. 17s.) due in respect of services rendered under an agreement in writing. The plaintiff, it appeared, got into communication with the defendants, and interested got into communication with the defendants, and interested himself in a patent known as a circulator for use in locoministri in a patent known as a circulator for use in locomotives and marine boilers, with a view to increasing speed, and rightly considered to be of commercial value. He introduced them to Lawler, Ayers & Co., and through them circulators had been supplied to a shipping company to the extent of 1,1166. 5%, which amount had been paid to the defendants. The jury found for the plaintiff, and judgment was given for him for the amount claimed.

Germans with B anch in Khartoum—In the Price

Germans with B anch in Khartoum -In the Prize Court on March 16, the President gave judgment in regard Court on March 16, the President gave judgment in regard to claims respecting a consignment of beeswax, which formed part of the cargo of the s.s. Clan Grant, which was shipped at the port of Sudan to Liverpool for transhipment to Hamburg. The claims had been made by the National Bank of Egypt, as pledgees of the bills of lading, and by Hohlen, Olun & Co., Khartoum, as owners of the beeswax. The consignees did not contest that the bank's claim was covered by authority, or that the shares of the two partners resident in Germany were confiscable. His Lordwin stated that the Craym acting within its rights two partners resident in Germany were confiscable. His Lordship stated that the Crown, acting within its rights, was willing to release to the partner resident in Khartoum one-third of the proceeds of the sale of the beeswax. With one-third of the proceeds of the sale of the Deeswax. With regard to the shares of the other two partners, the doctrine is quite clear that their domicile is in Germany, and, being German subjects, the mere fact that they had a house of trade in Khartoum—a neutral country for the purpose of this case—did not affect them. The case would be a fortionia against them if it were a British country. The shares of these two partners resident in Germany were therefore configeable and would be a condemned. confiscable and would be condemned.

Buying Stock and Fixtures—In the City of London Court, before Judge Atherley-Jones, K.C., and a jury, on March 24 the hearing of the case of Hemmings v. Booth, which was reported in the C. & D. February 27, p. 55, was concluded. Mr. James H. Hemmings, Pockham Rve, brought an action against Mr. Parkin S. Booth, Liverpool

and London, to recover 40%. damages for breach of contract dated December 10, 1914, for the sale and delivery by the defendant to the plaintiff of the whole of the stock, fixtures, and fittings on the premises 195 Northdown Road. Chiftonville, Margate. Plaintiffs sued defendant as liquidator in the winding-up of Lloyd's Drug-stores, Ltd., Margate, and the case had been adjourned, as Mr. Turner, solicitor for the plaintiff, said it would be necessary to make a charge of fraudulent misrepresentation against the defendant; but he now stated that the Court would not be further troubled with the matter, as the parties had come to terms. All charges of fraud would be unreservedly. come to terms. All charges of fraud would be unreservedly withdrawn, and if certain terms were not carried out, then judgment would have to be given for the plaintiff for an amount which had been agreed upon. Mr. Hildersley, for amount which had been agreed upon. Mr. filldersley, for the defendant, agreed, and added that white the charges of fraud stood the Court was not likely to be relieved of dealing with the matter, but after plaintiff's handsome withdrawal a settlement had been arrived at. Judgo Atherley-Jones smilingly approved of the course adopted, and the jury were discharged.

and the jury were discharged.

Account-checking by \*Pharmaceutical Committees.—
At Kilmarnock on March 18, Sheriff Robertson gave is reserved judgment in the action by Mr. Martin Meldrum, Ph.C., Ayr and Irvinc, to recover from the Ayrshire Insurance Committee 11, 8s. 9d., being amount of account for one jar virol, two tubes phylacogen, Benger's food, and Savory & Moore's food dispensed by him on medical prescriptions in terms of the National Insurance Act. The hearing was reported in the C. & D., March 13, p. 85. These items had been disallowed on the ground that the phylacogen was an "appliance," and the other articles came under the heading of "foods," and were not drugs as defined by the Insurance Commissioners. The ease was the first of its kind, and, it was stated, was considered as as defined by the Insurance Commissioners. The ease was the first of its kind, and, it was stated, was considered as in the nature of a test-case. Sheriff Robertson now sustained the defenders' plea that the action was irrelevant, and dismissed the case, with expenses against the pursuer. In giving judgment, his Lordship said it was, he thought, admitted that the items in the account sued for had been disallowed by a Committee representative of chemists and other persons undertaking the supply of drugs under the Insurance Act, and known as the Pharmaceutical Committee. By the regulations for the administration of Medical mittee. By the regulations for the administration of Medical Benefit, which under the Insurance Act have the force of Benefit, which under the Insurance Act have the force of statute, it is provided that all payments to chemists for the supply of drugs and appliances shall be paid from the Drug Fund in proportion to the amount of the Fund, and that before the final payment all accounts must be submitted to the Pharmaceutical Committee, "which shall have power to reduce or disallow any item of any account submitted to them." It is clear from these regulations that the Insurance Committee are not the debtors of each panel chemist under the Act for all the drugs, etc., supplied by him to insured persons, even although, as had been argued for the pursuer, the insured person is, under the Act, entitled to get the drugs, etc., prescribed, and the panel chemist is, under his agreement, bound to supply them. The Committee are merely administrators of the them. The Committee are merely administrators of the Drug Fund, and it might quite well be, under the regulations, that each chemist supplying drugs would only be entitled to recover one-half or one-third of the total amount entitled to recover one-half or one-third of the total amount of his account. This is sufficient to show that the claim stated was irrelevant. The point argued for the defenders, however, was that they are precluded from paying the items in the account sued for because these had been disable by the Pharmaceutical Committee under the regulations. In this, in his opinion, they were right. They nations. In this, in his opinion, they were right. They must administer the Fund in accordance with the regulations, and are not only not bound to pay any item not passed by the Pharmaceutical Committee, but are not entitled to do so. To make a relevant claim, the pursuer would require to say that his account had been passed by would require to say that his account had been passed by that Committee, and that under the method of calculation provided by the regulations the defenders were possessed of funds to meet his claim. It had been argued for the pursuer that the Pharmaceutical Committee had acted ultra vires in disallowing the items sued for, and that their powers are limited to reducing overcharges and disallowing charges for appliances not specified in the second schedule to the very lettice, or charges for drugs not actually supto the regulations, or charges for drugs not actually supplied. He could not sustain this argument. The article is conched in the widest terms, and there is nothing to indicate any limitation such as that suggested.

#### High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London,

"RADIUM" HAIR-RESTORFR.

In the Chancery Division on March 19, before Mr. Justice Warrington, counsel applied on behalf of Frank

Reginald Brighten, trading as John Blandford & Co., for an injunction to restrain Helen Cavendish, New Bond Street, W., from selling or advertising for sale under the name of "Radium" any preparation for the hair, skin, or teeth, or any perfume or perfumed soap. plaintiff, he said, is the registered owner of the trade-mark "Radium," and he recently found that the defendant, who, he said, appeared to claim to be the discoverer of the secret of perpetual youth and beauty, was also advertising her preparations under the name of Radium." She had said that she had ceased to advertise, but her advertisements appeared in the previous Sunday's papers. In reply to the motion, the defendant had stated her intention to apply for the removal of the plaintiff's trade-mark from the register.

Counsel for the defendant said he was authorised to make an offer to drop the use of the word "Radium" and to use some such word as "Radio-active" in con-

nection with her goods.

His Lordship: You must take the chance of that being

an infringement.

Defendant's counsel said the plaintiff's trade-mark is a word-mark, and it did not entitle him to a monopoly in the thing, nor did it prevent anybody else who made goods containing that particular property from saying that they were so made. It was true that advertisements had appeared, but that was because they could not be stopped

His Lordship, giving judgment, said he ought to grant the injunction, as it was clear that the plaintiff's mark should be protected. The defendant said that she was prepared not to use the word "Radium" but some words which would indicate the quality of her goods without infringing the trade-mark. He warned the plaintiff, however, that before commencing any proceedings for committal on the injunction, he (plaintiff) would have to consider very carefully whether the use of any words of this sort by the defendant could be an infringement of a word-mark. All he could do was to grant an injunction in the terms of the notice of motion.

# Bankruptcy Report.

Re Harry Percy Jones, 25 Liverpool Road, Stoke-upon-Trent, Chemist and Druggist.—A creditors' meeting was called at the offices of the Official Receiver, Newcastle-under-Lyme, on March 19, but no creditor attended. The statement of affairs showed gross liabilities 2,122/. 0s. 7d., of which 1,307l. 10s. 9d. is expected to rank. The not assets are 51l. 10s. 2d., showing a deficiency of 1,266l. 0s. 7d. The debtor alleges as the causes of his failure: "Want of capital: excessive nurchase-price agreed to be paid for paid of capital; excessive purchase-price agreed to be paid for the business, having to provide interest at 5 per cent. on the balance of the purchase money and on loans of 950/. advanced on the security of the business premises." The affairs remain in the hands of the Official Receiver.

# Deed of Arrangement.

Scott, William Nimmo, Sunderland Road, Felling, co. Durham; Chemist and Druggist.—Trustee: W. T. Price, Post-office Chambers, St. Nicholas Square, Newcastle-on-Tyne, accountant, Dated, March 16; filed, March 22. Secured creditors, 26t.; liabilities unsecured, 732t.; estimated net assets, 399t. The creditors include: Southall Bros. & Barclay, Ltd. (14t.); Harkness, Beaumont & Co. (16t.); Bainbridge & Co., Ltd. (23t.); J. Ismay & Sons (32t.); Bleasdale, Ltd. (20t.).

THE EXPORTS of chemicals, drugs, dyes, and medicines from the United States during the nine months ended September amounted to \$20.232,000, against \$19,799,000 for the corresponding period of 1913.

Rubber-seed.—In a communication of the Besocki Essay Station in Djember, Java, attention is called to the fact that the period for making large profits from the sale of hevea-seed has passed, as practically every plantation disposes of its own seed, and few new plantations are being made.

#### Gazette.

#### Partnership Dissolved.

Surridge, E. E. N., and Smallhorn, C. A., Knutsford, physicians and surgeons, under the style of Surridge & Smallhorn.

#### Bankruptcy Acts.

RECEIVING ORDER.

The Hygiere Mineral-water Co. (W. Selby Cobb is believed to be sole proprietor), Tuckton, Bonraemouth, mineralwater manufacturers.

Adjudication.

LLOYD, F. G. (described in receiving order as B. S. Lloyd & Co.), 40 King Street, Cheapside, E.C., merchant.

# Limited Companies.

#### New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

COPRA OIL MANUFACTURERS, LTD. (P.C.).—Capital 25,0007 in 17. shares. The subscribers are II. E. Campbel 35 Crutched Friars, E.C., and P. J. Goodchild.

Swiss Celluloid Co., Ltd. (P.C.).—Capital 1,000l., in 1l. shares. Objects: To carry on the business of A. Laubbacher, 58E Hatton Garden, E.C., who is the first director.

D. & J. Cohen, L.C., who is the first director.
D. & J. Cohen, Ltd. (P.C.).—Capital 1001, in 11. shares.
Objects: To carry on the business of dental mechanics and artificial-teeth suppliers. The first directors are D. Cohen and Jenny Cohen. R.O., 145 High Street, Aldgate, E.
Dorakleen, Ltd. (P.C.).—Capital 1,0001. in 11. shares.
Objects: To carry on the business of face and skin specialists, etc. The first directors are Miss A. Hansen, Miss A. Corcoran, and Miss D. Corcoran. R.O., 57 Davies Street, Berkeley Square, W.

Jenkins, Hill & Co., Ltd. (P.C.).—Capital 3,000*l.*, in 1*l.* shares. Objects: To take over the goodwill of the business of Jenkins, Hill & Co., carbide of calcium importers, etc., 52 Queen Square, Bristol. The first directors are W. Jenkins and A. G. Hill.

Cartlidge, Hoult & Co., Ltd. (P.C.).—Capital 2,000l., in 1l. shares. Objects: To take over the business of L. Cartlidge, seed-crusher, manufacturer of linseed, etc., Buckleys Mill, Marsh Street, Hanley, Staffs. The first directors are L. Cartlidge, R. G. Hoult, and J. H. Cartlidge.

FOSKETT & WOODWARD, LTD. (P.C.).—Capital 1,0001., in 11. shares. Objects: To take over from M. Favero, 2 Frederic Terrace, East Finchley, the business of "Lucidon" (a French polish). The first directors are A. E. Woodward (chairman) and S. Foskett. R.O., Park Works, Park Road, East Finchley

Ham & Co., Ltd. (P.C.).—Capital 1,500*l.*, in 1*l.* shares. Objects: To take over the business of chemists and druggists carried on at Market Place, St. Ives, Cornwall, as Hain & Co. The first directors are J. Hain, E. Hain, and J. G. Hain (permanent), and G. A. Franklin, pharmacist, St. Ives (managing director).

COLOURS AND CHEMICALS, LTD. (P.C.).—Capital 10,000l., in 1/l. shares. Objects: To adopt an agreement with the Indestructible Paint Co., Ltd., Gaston de Pierres, and J. C. Smith, to carry on the business of manufacturers, exporters and importers of and dealers in pigments, takes, dyes, chemicals, drugs, etc. R.O., King's House, King Street, Cheapside, E.C.

Cheapside, E.C.

British Fine Colour Co., Ltd. (P.C.).—Capital 5,000/...
in 1/. shares. Objects: To adopt an agreement with A. S.
Taylor and S. Cox for the acquisition of the business carried on by them as the Mersey Colour and Chemical Co., to carry on the business of manufacturers of and dealers in dry and pulp colours, etc. The first directorare R. G. Owens and H. J. Taylor. R.O., Meadowside Works, Didsbury, near Manchester.

#### Company News.

G. B. Kent & Sons, Ltd.—Mr. J. C. Vincent, manager of the Melbourne factory, has been appointed a director of the company.

PRICE'S PATENT CANDLE Co., Ltd.—The annual report states that the profit-and-loss account for the year to December 31, 1914, shows a profit of 98,565/., compared with 95.914/. in 1913. After adding 8,466/. undivided profit from 1913, and deducting the interim dividend of 16s. per

share, amounting to 30,000l., and interest on debenture stock 10,000l., there remains a disposable sum of 67,032l. It is proposed to write off 10,000l. for depreciation of

stock 10,0001., there remains a disposable sum of 67,0321. It is proposed to write off 10,0001. for depreciation of buildings and plant (the depreciation on the overseas and Belvedere factories having been already provided for), applying 46,8751. in payment of a final dividend of 11.52. per share, thus making 21. 1s. per share, less income-tax, for 1914, and carrying forward 10.1571.

SOUTHALL BROS. & BARCLAY, LTD.—The directors' report for the year ended December 31, 1914, to be presented at the annual meeting to be held at the Grand Hatel, Birmingham, on Mareh 29, shows that, after providing for bad debts, depreciation, and directors' remuneration, there is a balance of profit for the year of 21,5541. 4s. 10d.; to this is added 8,7541. 6s. 9d. carried forward from last year, making a total of 30,1081. 11s. 7d. Out of this has been paid an interim dividend on preference shares of 2,7501., leaving a balance of 27,3581. 11s. 7d., which the directors recommend should be appropriated as follows: Second half-year's dividend on preference shares at the rate of 5 per cent. per annum, 2,7501.; year's dividend on ordinary shares at the rate of 10 per cent. per annum (free of income-tax), 8,6001.; bonus of 6d. per share on ordinary shares (free of income-tax), 2,1501.; carried to reserve, 2,0001.; written off goodwill, patents, etc., 3,0001.; balance carried forward to next account, 8,8581. 11s. 7d. Mr. Alfred William Southall, the retiring director, offers himself for re-election. The normal capital of the eompany is 260,0001., of which 196,0001. is subscribed, 86,000 being ordinary shares. The reserve now amounts to 24,1731. 14s. 9d. The assets of the company consist of freehold and leaschold land, buildings, and premises, 71,9981. 9s. 11d.; plant, machinery, tools, and fixtures, 50,7501. 11s. 5d.; stock in hand, as valued by directors, 34,8951. 18s. 11d.; sundry debtors, less reserves, 65,5051. 10s.; cash and bills in hand and at bank, 15,2661. 3s. 2d.; temporary investments, 7,7121. 16s. 1d.; goodwill, patents, etc.

EVANS SONS LESCHER & WEBB, LTD.--Mr. J. J. Evans presided at the annual meeting of shareholders held in the company's effice, Liverpool, on March 19. In moving the adoption of the directors' report, accounts, and balancesheet (see C. & D., March 20, p. 40), he referred to the business difficulties which had been encountered since the war with Germany broke out in August, especially those of transport, labour (about 150 of the company's staffs joined the Forces), financial unrest, and the like. Nevertheless, the company had a successful year. The directors in August boldly faced the situation, took the heads of departments into their confidence, reorganised the staff, engaged new hands as required, and left no stone unturned to keep up stocks to meet the requirements of customers, and gave reasonable credit to their old and valued customers, both at home and abroad. They sent experienced representatives to certain neutral countries to capture trade hitherto done with Germany, and a large trade with our Allies was also company's office, Liverpool, on March 19. In moving the with Germany, and a large trade with our Allies was also secured. Research chemists set to work to enable the company to make many things hitherto made in Germany, and have succeeded in quite a large number of cases, while the manufacture of many other articles is contemplated. This may involve a large outlay of capital, and the consent of the Treasury has been secured for the issue of shares up to a certain amount, with the consent of existing shareholders. Mr. Evans proceeded to thank all the staff for their co-operation with the directors in a period of great stress and strain, and noted the return of Sir Edward Evans to business. The services of Mr. Stephen Foster Webb, who is in the Honourable Artillery Company, and just ctarting for Taylory had been made with the father starting for Turkey, had been much missed by his father and the other London directors. Reference was next made and the other London directors. Reference was next made to the accounts, and attention was called to the fact that in them property showed an increase, due to additions to the buildings for bacteriological work at Runcorn. The plant was 1,500% more, and book-debts higher, owing to great demand and operation of the moratorium abroad, while at home many chemists are rather behind with their accounts as they are kept out of National Insurance Act money. A study of the figures as a whole showed that holders of debenture stock and preference shareholders are amply secured. Mr. William Brinson seconded the motion, which was carried unanimously. Mr. T. E. Lescher, Mr. S. F. Webb. and Mr. K. W. E. Evans were re-elected directors, and Chalmers, Wade & Co. auditors.

Mr. STANLEY A. SHACKLETON, chemist and druggist, has opened a pharmacy at 13 Peter Street, Hereford.

opened a pharmacy at 15 Peter Street, Hereford.
MR. J. Winship. chemist and druggist, 36 Petergate,
York, is retiring from business, and in consequence his
stock, fixtures, etc., have been disposed of by auction.
MR. THOMAS MARNS has purchased the business of
Timmins & Gould, 22 High Street, Ealing, London, W.,
and will carry it on under his own name from March 29.

#### Birth.

Authenticated notices are inserted without charge,

Hinrichs.—At 18 Lucknow Avenue, Nottingham, op. March 17, the wife of A. C. Hinrichs, chemist and druggist (Parke, Davis & Co.), of a son.

#### Marriage.

Authenticated notices are inserted without charge-

Golden Wedding.

COOK-RUSSELL.-Mr. Markham Cook, J.P., chemist and druggist, 130 Victoria Street, Grimsby, and Mrs. Cook celedruggist, 130 Victoria Street, Grimsby, and Mrs. Cook celebrated their golden wedding on Sunday, March 21, having been married at St. John's, Mansfield, Notts, on March 21, 1865. Mrs. Cook is a daughter of the late Mr. John Bolt Russell, Excise officer, Mansfield. Mr. Cook is a native of Grimsby, where he was born on December 23, 1840, was apprenticed to the late Mr. Ralph Burnham, chemist, and has carried on business on his own account since. In 1886 he became a member of the Grimsby Board of Guardians, and at present is the Junior Vice-Chairman of the Board. In 1900 he was appointed a Justice of the Peace. In 1873 he was elected a member of the Town Council, but vacated. he was elected a member of the Town Council, but vacated he was elected a member of the Town Council, but vacated his seat after serving six years. He is a prominent Freemason. In addition to his chemist's business, Mr. Cook is senior partner in the firm of Cook & Son, auctioneers and valuers, and is Chairman of the Grimsby and Cleethorpes-Permanent Benefit Building Society. Two sons and one daughter of Mr. and Mrs. Cook's family of seven children survive.

#### Deaths.

Authenticated notices are inserted without charge.

COULTER.—At 40 The Avenue, Starbeck, Harrogate, on March 20, Mr. George Coulter, chemist and druggist, aged seventy-nine. Mr. Coulter was in business at Wetherby for thirty years, and was previously at Sedburgh for about twenty years. He had lived in retirement at Starbeck for the last three and a half years. Mr. Coulter was a most just and generous man, and since leaving Wetherby has been very greatly missed, especially by the poor.

DODGE.—Studenly, at Stockport, on March 9, Mr. William Dodge, chemist and druggist, aged sixty-five. Mr. Dodgehad been in business at Love Lane, Heaton Norris, Stockport, for many years, and was a prominent member of the local Pharmacists' Association.

local Pharmacists' Association.

ELLINOR.—At Spital Hill, Sheffield, on March 18, Mr. George Ellinor, Ph.C., aged seventy-three. Mr. Ellinor was the oldest pharmacist in Sheffield. In 1865 he entered into partnership with the late Mr. Clayton, and nine years later commenced business on his own account at Spital Hill. He was several times President of the Sheffield Pharmaceutical and Chemical Society, and regularly attended the meetings of that body. He was also a member of the Sheffield Microscopical Society. Mr. Ellinor held very definite views on pharmaceutical politics. He was a Freemason of the Royal Brunswick Lodge, a Liberal in politics, and an active member of the Wesleyan Methodist body. He leaves two sons, one of whom, Mr. J. T. Ellinor, chemist and druggist, was associated with him in business. The Sheffield Pharmaceutical and Chemical Society and the Sheffield Chemists' Trading Association were represented at the funeral, on March 22, by Mr. J. Gilbert Jackson and Mr. G. T. W. Newsholme.

EVANS.—At 114 Upper Richmond Road, East Putney, on March 19, after a short illness, Margaret Anne, wife of Mr. Thomas Evans, pharmacist, aged fifty-four.

GLOAG.—At Lothian Road, Middlesbrough, on March 22. Mr. Robert Ford Gloag, formerly managing director of Sadler & Co., Ltd., chemical-manufacturers, Middlesbrough.

HILL.—On March 14, Mr. Elric John Hill, chemist and druggist. 31 Falcon Road, Battersea, London, aged fifty-three. Mr. Hill had been in failing health for some time. He commenced business at Falcon Road twelve years ago, and was well known and respected in the neighbourhood. He had also been dispenser for the Wandsworth Union. He leaves a widow and three children.

HUNT.—At Lynwood, Ophir Road, Portsmouth, on March 14, Mr. Henry John Hunt, chemist and druggist, late of Queen's Road, Portsmouth, aged sixty-nine

Morgan.—At 10 King Edward Street, Rochester, on March 18, Mr. Alfred William Morgan, chemist and drug-gist, 7 Railway Street, Chatham, aged fifty-seven. Mr. Morgan was suddenly taken ill while attending to business on March 9; pneumonia developed, and he succumbed from heart-failure. He is survived by a widow, three daughters, and two sons.

SLOAN.—At Dumfries, on March 17, Mr. Alan D. S. Sloan, aged thirty-two. Mr. Sloan served his apprenticeship in pharmacy with Mr. John Lockerbie, chemist and druggist, Dumfries, and after spending several years in Birmingham returned to Dumfries as assistant to Mr. William Allan, Ph.C., seven years ago. He was held in high esteem by Mr. Allan's elientèle and by a wide circle of friends in Dumfries and neighbourhood.

#### Killed in Action.

CROZIER.-On March 12, Private George Crozier. CROZIER.—On March 12, Private George Crozier, 3rd Battalion City of London Regiment, Royal Fusiliers. Private Crozier was a native of Manchester, and served his apprenticeship in pharmacy with Mr. M. J. Cooling, chemist and druggist, Crumpsall, Manchester, and was thereafter assistant to Mr. W. T. Stephenson, chemist and druggist, Sutton, Surrey. He culisted in October, and had only been in France three weeks.

#### Wills.

Mr. Frederick Fink, Kenehester, Hyland Road, Epsom, of Frederick Fink & Co., 10 and 11 Mineing Lane, London, who died on February 1, left estate of the gross value of 8,8887. 3s. 6d., of which 8,3807. 13s. 8d. is net personalty. Probate of his will has been granted to his widow, Mrs. F. M. A. Fink, and Mr. G. H. Brent.

Mr. Robert Drane, chemist and druggist, 16 Queen Street, MR. Robert Drane, chemist and druggist, 16 Queen Street, Cardiff, who died on July 14, left estate of the gross value of 12,8441. 5s. 3d., of which the net personalty has been sworn at 9,6811. 18s. 6d. Probate of his will has been granted to his brother, Mr. W. Drane, Kingston Hill, and Mr. J. J. Neale, Penarth. The testator left the goodwill, stock-in-trade, book-debts, etc., of his business as to one-half to his assistant, Alec Samuel Williams Johnson, and one-half equally between his assistants Arthur James Harries and Edward Jones, directing that they shall rent his busione half equally between his assistants Arthur James Harries and Edward Jones, directing that they shall rent his business premises for the remainder of the lease at a rent of not less than 1651, per annum, and after payment of groundrents the balance of this sum is to be paid in each year to the Cardiff Institute for the Blind. He left also 1001, each to tho Brompton Cancer Hospital, the Royal Hospital for Incurables, the Royal Hospital for Diseases of the Chest, and the Royal National Hospital for Consumption; the bust of himself by Merrifield (which was reproduced in the C. & D.) to the Council of the Welsh National Museum, After various other bequests, the residue of his property is left to his brother William.

After various other bequests, the residue of his property is left to his brother William.

Mr. Thomas Kay, chemist and druggist, Moorfield, Stockport, of Kay Bros., Ltd., who died on September 22, left estate of the gross value of 229,904. 0s. 10d., of which 219,4961. 19s. 8d. is net personalty. Probate of his will has been granted to Mr. G. A. Downs, Chorlton-cum-Hardy; Mr. E. Hardcastle, Stockport; Mr. W. H. J. Winstanley, Cheadlo Hulme; Mr. T. B. Leigh, Bredbury; and Mr. H. Newton, Stockport. The testator left 10,0001. upon trust for each of his granddaughters, Alice Hilda and Helena Winifred; an annuity of 1,0001. to his daughter, Annie Fox Kay, during her widowhood, or, in the event of her remarriage, 5001. per annum during the remainder of her life; 1001. to each of the children of his friend William Hope; 1001. to each of the unmarried daughters of his friend Jas. Burrough: 1001. to each of the unmarried daughters of his friend Francis Newton: 1001. to each of the unmarried daughters of his friend Francis Newton: 1001. to each of the unmarried daughters of his friend Francis Newton: 1001. to each of the unmarried daughters of his friend Francis Newton: 1001. to each of the unmarried daughters of his friend Francis Newton: 1001. to each of the unmarried daughters of the fate Alfred Darbyshire; 1,0001. and fifty preference shares in Kay Bros. Ltd., to his sister, Mary Hardcastle; 1,0001. and twenty-five preference shares in the said company to his brother John: 1.0001. each to the executors of his will; 2001. to each of the ehildren of his brother, Marvel Kay. Among the bequests is 5,0001. to the Benevolent Fund of the Pharmaceutical Society of Great Britain, and 51. to each employé of Kay Bros., Ltd., of two years' service in Kay Bros., Ltd., under the age of twenty-one years; 12. to each employé of two years' service in Kay Bros., Ltd., under the age of twenty-one value of 5002. in Kay Bros., Ltd., to George Leah if in the employ of the said company at his death; and, subject to other legacies and provis

#### Trade Notes.

PEFS.—The British character of Peps is emphasised by C. E. Fulford, Ltd., Carlton Hill, Leeds.

THE DOMIGO CHEMICAL Co. has established itself at 168 Aldersgate Street, London, E.C., whence its propaganda in regard to the Domigo plant-remedies is to be issued.

EXTIRIO FLY-CATCHERS.—Shirley Bros., Ltd., Whitecross Works, Loudon, S.E., call attention to the advantages of the Extirmo fly-catchers. The buying season for these goods is at hand.

SALINES FOR THE SPRING TRADE is the subject of the advertisement of Corbyn, Stacey & Co., Ltd., Brunton's Wharf, Commercial Road East, London, E. The special kinds are referred to and illustrated.

May, Roberts & Co., LTD., London and Dublin, in their special list for March, give some notes in regard to developments in the methods for facilitating despatch of goods under the present abnormal circumstances, adding some hints to customers on things that they may do to help.

"Dreadnought" Collapsible Boxes, to which reference was made in the C. & D., March 13, p. 100, are being used in place of wood packing-cases, and manufacturers and others who have been using such cases will be well advised to address the Globe Box Co. (Cartwright & Rattray, Ltd.), Boston Mills, Hyde, Manchester, in regard to the "Dreadnought" boxes.

LANOLINE TOILET-CREAM.—Hall, Forster & Co., Ltd., Newcastle-on-Tyne, are manufacturers of a well-compounded lanoline toilet-crcam which is delightfully perfumed. It tanorme toner-eream which is delightfully perfumed. It is put up in lacquered-metal boxes, as well as in collapsible tubes, plainly yet effectively labelled. As an example of what can be done in this country with British materials, the cream is excellent.

Vaccines.—W. Martindale, manufacturing chemist., 10 New Cavendish Street, London, W., devotes his advertisement in this issue to an enumeration of those Wimpole vaccines which are specially in demand at the present time owing to the war and climatic conditions. The list is a owing to the war and climatic conditions. The list is a useful reminder of the vaccines which should be in stock in the pharmacy.

HERTZ & Co., 9 Mineing Lane, London, E.C., have recently been appointed agents for the well-known perfumes of the Theodore Ricksecker Co., New York. They hold stock of all their products, including toilet-preparations as well as perfumes, and will submit prices on application. As the proprietors of the Florazone Co., the firm have received instructions from the Duchess of Westminster's Hospital to supply Florazone sprays and essence for use in the begintly in France.

received instructions from the Duchess of Westminster's Hospital to supply Florazone sprays and essence for use in the hospital in France.

Wixdow-shows.—Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, London, E.C., supply the materials for a very effective window-display of "T.M." smokers' tooth-powder. We are informed that one chemist in the City of London sold eight gross of the powder in five weeks as a result of this window-display. A booklet, in novel form, entitled "Tips to Smokers," has just been issued, and as the tips are really good, the smoker who receives a copy will be sure to read it through.

The P.A.T.A. Protected List for March contains the following additions: Aspad Powder and Shampoo-powder; Barnett's Eau de Cologne (nine sizes) and Phaon Greaseless Hair-eream; Grossmith's Oriental Face-powder; Hard-castle's Balm of Gilead (four sizes), Cholera-drops (two sizes), Balsamie Elixir, and Bilious and Liver Pills; and Little's Cazo Tablets. The month's alterations in price are: Barnett's Lotus-flower Perfume; Christy's Mistole (three sizes); Harker, Stagg & Morgan's Arkryl (five sizes); and Dr. Roberts' Constitutional Pills.

EPIZOOTIC ABORTION VACCINE.—The treatment and prevention of epizootic abortion in animals has hitherto been the despair of veterinarians, so that the preparation of a vaccine from which successful results may be expected is a matter of importance. Such a vaccine has been prepared at the Wellcome Physiological Research Laboratories, and

matter of importance. Such a vaccine has been prepared at the Wellcome Physiological Research Laboratories, and is supplied by Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. Bacillus Abortus vaccine is an emulsion in normal saline of numerous strains of B. Abortus (Bang). In normal same of numerous strains of B. Abortus (Bang), which have been killed by heating just above the thermal death-point. For bovine treatment the vaccine should be injected subcutaneously, the most suitable site being the neck or on the chest-wall above the point of the elbow. In cosw which are already infected with B. Abortus there is frequently a definite reaction at the voint of inconstitution. is frequently a definite reaction at the point of inoculation, requently a demnie reaction at the point of inoculation, evidenced by well-marked swelling, which however, subsides in the course of forty-eight hours. The best results have been obtained by employing a series of three injections at intervals of a week, the doses being 100, 250, and

500 thousand million organisms. Satisfactory results have been reported in the prevention of epizootic abortion of cattle by means of this vaccine.

"Wellcome" brand is issued in rubber-capped bottles of 25 c.c., containing 100,000 million organisms per c.c.

THOMAS GUEST & Co., Ancoats, Manchester, had a wonderful run last spring with their fig. senna, and sulphur tablets, which are an attractive sweetmeat combining in a



mild form the alterative properties of the medicinal constituents. The tablets are obtainable in bulk as well as in 4-oz. cartons, the latter retailing at  $3\frac{1}{2}d$ . The firm supply retailers with the attractive showcard which we reproduce in reduced facsimile, the original being printed in black and red and measuring  $18\frac{1}{2}$  in. by 14 in.

A VISIT TO QUELCH'S.—A C. & D. man who called this week on Henry C. Quelch & Co., 4 and 5 Ludgate Square, London, E.C., found that since his last visit a new showroom has been provided in enlarged premises, and that lifts and other improvements have been installed. The showroom is more spacious than the one formerly in use, and this gives a better opportunity of exhibiting to advantage the many special lines which the Green pales or for and this gives a better opportunity of exhibiting to advantage the many special lines which the firm make or for which they are agents. It is one of those places which chemists in search of attractive novelties should visit. Inquiries regarding the Icy-hot vacuum-flasks brought out the interesting fact that the demand is enormous, and that chemists are appreciating the advantages of this type. There are some new packings ready for introduction, such as neat luncheon-set, consisting of a vacuum-flask and sandwich-box in a neat attaché case. Khaki-coloured canvas holders with sling are now being marketed, and are very convenient for men on active services who use vacuum-flasks. Messrs, Quelch have recently taken over the British agency for the Apollo chocolates of the F. H. Roberts Co., Boston, Mass. There are eight varieties of these chocolates: they are packed in ½-lb, and 1-lb, boxes, and are to be sold only by chemists. The quality of the chocolates is such as to be a credit to any chemist who sells them. Another line which is a taking novelty is Claire's nail-polishing paper and pad. This is a 6d. line, and is in appearance like a small leather-bound book. The leaves are powdered like a small leather-bound book. The leaves are powdered paper especially prepared for nail-polishing, but the neat thing about the package is that the leather back forms the polishing-pad.

#### Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. John Ward, chemist and druggist, Builth Wells, has heen nominated for membership of the local Urban Council.

PROFESSOR DR. A. TSCHIRCH on March 19 completed the wenty-fifth year of his connection with the Pharmaceutical Institute, Berne.

MR. WALTER HENRY DIXON, chemist and druggist, High treet, East Grinstead, has been re-elected unopposed to the Urban Council.

Mr. D. J. Bailey, chemist and druggist, Lytham Road, Blackpool, has been elected a Vice-President of the local South Shore Traders' Association.

Mr. W. Smith, chemist and druggist, High Street, Durham, has been re-elected a member of the Executive Committee of the local Chamber of Trade.

Mr. E. C. FOWELL, who has been in London for some time on a mission on behalf of his principals. Schieffelin & Co., New York, has gone to Paris this week.

Miss Edith R. Clarke, daughter of Mr. R. Feaver Clarke, J.P., has been appointed temporarily by the Board of Education an inspector of physical exercises for England

Mr. R. Sturton, chemist and druggist, Cambridge, has been appointed a member of the Cambridgeshire Education Committee and of the County Committee for the Care of the Mentally Defective.

D. & W. Gibbs, Ltd., City Soapworks, Wapping, London, E., inform us that their representative, Mr. F. Johnson. 32 Alcester Road, Moseley, Birmingham, is still representing them, and is in the best of health. This is a sufficient denial of the malicipus rumour to the effect that Mr. Johnson is dead.

Johnson is dead.

It is told in the "Daily Mirror" that Sir William Ramsay, K.C.B., F.R.S., has some Swedish and Finnish relatives, but did not know it until he went to Stockholm in 1904 to receive the Nobel Prize. Then he noticed a book in a shop-window written by one who bore the same name as his grandfather. This recalled to his mind vaguemenories of some distant relatives in that part of the world. He put himself into communication with his authornamesake, and as a result of an ensuing correspondence Sir William went ever to Finland in the following year to visit his relatives there. That branch of the Ramsay family was founded in the seventeenth century. We may add that Sir William is the el·lest son of the late William Ramsay, C.E., Glasgow. He is sometimes confused with 3ir William M. Ramsay, also a Glasgow man, who was Professor of Humanity in Aberdeen University, who is one of the greatest living authorities on the Jearneys of St. Paul, as well as on Turkey. Paul, as well as on Turkey.



C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words). Telephone Number: 3617 CENTRAL (three lines).

#### INFORMATION WANTED,

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

fumc."
fume."
Peeress" blackhead-re-

mover. 45/38, "Sibas," in fine powder. 47/63. "Lewis's lye": supply.

appreciated. Please address us as above:

48/50. "Solanum" preparations (proprictary): makers.

43/50. Freeman's Essence of Senna.

43/50. Gibson's gout and rheumatic pills.

45/18. "Oleana" influenza perturne" 250/50. Lactoform tablets: suppliers.

pliers.
39'47. Address of Panlus Company, makers of "Belgium White Snuff."

See also "War Wants Exchange" in the Coloured Sup-Mement.

#### INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

Alkagen, 38/72
Altona drops, 33/330
Chip-box substitutes, 27/74
Cholelysin, 39/33
Chrome alum, 34/42
"Cicfa." 41/12
Companyed leadure weekin

"Gicfa," 41/12
Compressed handage machinery, 28/58
Coty's perfumes, 32/20
Flanged pill-boxes, 14/74
Frozocolone, 21/13
Fluit essences, colours, etc. (for export), 13/69
"Genevieve" tooth - brushes, 22/5

Glycerin syringes (vulcanite fittings), 31/20, 32/57, 34/18

Glysco, 36/40
Grimault's syrup, 41/26
Harriet Hubbard Ayer's preparations, 33/33
Pellauthum, 40/5
Pellicol, 35/7
Perchloride sawdust, 21/62
Perfume syphons, 32/57
Perry Paris' painskiller, 34/49

Perfume syphons, 32/57
Perry Davis' pain-killer, 34/49
Pine bath tablets, 71/25
Phaster-spreading machinery
(Italian inquiry), 253/590
Waterproof sheeting, 14/54
Wickering Cologne bottles, 37/27
Wilkusson's sarsaparilla, 9/66
"Willow" corn-cure, 21/4

See also "War Wants Exchange" in the Coloured Supplement.

#### Observations and Reflections.

By Xrayser II.

#### "Panel Formulary Mixtures,"

"without variation in quality or quantity," are alone to be allowed in Sheffield, while in Essex "any formula not included in the B.P. or the B.P.C. will be regarded as a private formula," and any prescription consisting of a private formula may be reduced or disallowed by the Pharmaceutical Committee. These two contradictory views of what may be done under the Insurance Act appeared side by side in your pages last week, and they prompt me to inquire what in the world are we coming to? The administration of the Act, so far as Medical Benefit is concerned, is fast drifting, if it has not already drifted, into a hopeless muddle.

#### "The Present Standard of Ethics

among medical workers," if the article quoted by you from the "Medical World" may be taken as evidence, is about on a par with that of Prussian diplomacy. For impudent mendacity "the view of the situation" put forward in it can only be matched by the charges against our country made in Berlin for consumption in America-unless, indeed, we go back to Æsop's story of the wolf and the lamb. Fortnnately, the absurdify of the whole article is as obvious as its untruth, and if the Panel Medico-Political Union are really going to fight us on these lines we ought to get some fun out of them. In accepting the Government's estimate of the cost of Medical Benefit we "undertook a trade gamble, pure and simple" (simple enough, it is true, were we), but there was nothing of a "gamble" in the doctor's contract; that, to use an appropriate bit of slang, was a "dead cert." But, then, he got nearly four times what we do, whether he did any work for it or not; whereas we get nothing, except where we have supplied the goods. This, apparently, is what is meant by "securing all the money that was available"—available, that is, after the doctor has made his scoop. And, in addition to "an extremely liberal feo" (which appears to amount to about 21d., and includes charges for time, skill, and wranpage, to say nothing of delivery), we manage to make 200 per cent. nuder tariffs calculated on the basis of 33½ per cent. gross profit. Meanwhile the doctor, for the miserable nittance allowed rim, "loyally does his duty to his patients" (and incidentally gets all he can of the florting sixpence) by keeping down his prescriptions to the lowest possible standard—five farthings each in the cases which Dr. Salter compared. It is on such work as this that our "large profits" are made, and still we are not happy. We ought to be proud of our skill, at any rate.

#### "Back to Lister"

is an interesting phrase, and it seems to suggest that for years past surgeons have been away from Lister's teaching and practice. But to anyone who looks below the surface it is plain that there has never been any reversal of the Lister system, for antiseptic and aseptic surgery are both based on the principle of absolute purity, and, as Sir Rickman Godlee stated, "there is really no fundamental antagonism between the How did it ever come to be thought and said that there was a difference? I think there is an explanation perfectly plausible and by no means flattering to the men of the generation now passing away. I have had the opportunity of seeing many great surgeons operate, including Lister himself, and as the outsider who sees most of the game, and taking a keen interest in the opposing schools, I always felt that the so-called aseptic surgeons, at least in the early days, were inspired more by jealousy of Lister's success than by any special love for the advancement of science. I recall that on one occasion a great Midland surgeon came to my town to perform an abdominal section. All the local medicos were there. One of them asked the great man quite innocently whether he used carbolic acid, and it was

amusing to note the emphatic scorn with which he answered. "No, clean water; you can drink it if you like!" But though this great man scoffed at Lister's methods, his own practice was simply a natural adaptation of pure Listerism.

#### That Condensed Milk

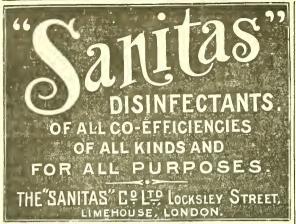
at no stage of its manufacture should ever be completely sterile is a new idea to me. I have always been of the opinion that sweetened condensed milk is from the nature of the case a sterile product so long as the tin is unopened, but if Dr. S. Delépino is correct we must revise our opinions regarding this most important food-product. I have had a good deal of practical oxperience with condensed milk, both sweetened and unsweetened, and while I have always been lukewarm towards the latter, I have never at any time had any suspicion of the former. The very process of manufac-ture, as it is carried out in the best factories, seems to me effectually to prevent the presence of any living organism. If it should get into the head of the public that condensed milk is liable to be contaminated with tubercle or any other germs, there might easily be a most unpleasant scare, which I think would be quite unnecessary. If, however, Dr. Delépine's strictures are justified, the sooner the Local Government Board take some action and let us know about it, the better will it be for the health of the community.

#### Dr. McWalter's Very Interesting Letter

must not pass without a word of thanks from a professed lover of antiquities, and I regret having overlooked the paper contributed by Dr. Dorveaux to which he refers. One or two points in his communication to you may be remarked upon, though I cannot speak positively of any. Dr. McWalter thinks scrinia includes bottles and earthenware jars, but as regards the former at any rate I am doubtful. Originally the word meant a casket or cunboard, and it had a special reference to receptacles for papers. Littleton glosses scrinii magister "the Master of the Rolls." As a medical term it stood for a box: scrinia unquentorum is Pliny's term for boxes of ointments. Pyxis, again, meant a box, but it might be a metal box, and sometimes it stood for gallipot. The epithet tortiles seems, however, in this case to indicate a turned wood box, as Dr. McWalter says. Sacculus is, of course, a little bag, but it had a peculiar connotation in medicine as a bag of medicaments for particular purposes. In our old Dispensatories we find recipes for Sacculus Lateralis, Sacculus Anodynus, and so on, and probably it is to such that the word refers here. Epithema is a term of wide significance, including, as Quincy says, "Lotions, Catablasms, or any other Topicks." Thus Enithema Cephalicum was a spirituous preparation for rubbing on the temples. Omfacileon is the oil of unripe olives, which for many purposes was preferred to the olcum maturum; hence the old official oleum rosaceum omphacinum. Serapinum is sagapenum. but I should not like to affirm that either this gum or sarcocolly always came from the particular plant to which Dr. McWalter assigns it.

Commercial Museum in Teneriffe.—The Superior School of Commerce of Teneriffe is installing a commercial museum of the nature of a permanent exhibition of products of various countries. Manufacturers are invited to send samples of their products, with information as to prices, freights, etc. The School offers to reimburse exhibitors for the cost of sending samples.

Hydrolysis of \*Cetylealicylic Actd —D E. Tsabalotos and S. Horsch ("Bull. Soc. Chim.." 15, 1914, p. 473) find that the hydrolysis of acetylsalicylic acid as measured by the increase of acidity in a 0.2-per-cent. solution is nearly complete in about 100 days, and is accelerated by mineral acids. Acetic and citric acids accelerate the decomposition at first, but afterwards have a slight retarding influence.



Showcards and Literature on application.





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# Editorial Articles.

#### Chemicals in Warfare.

An interview with Field-Marshal Sir John French has been published since this article was written. In it he said:

"It is a rough war, this, but the problem it sets is a comparatively simple one—munitions, more munitions, always more munitions. That is the essential question, the governing condition of all progress, of every leap forward. Everybody needs plenty of munitions, but the Germans need them even more than we. I have the feeling that for some time now they have been becoming more sparing of their shells. There is no longer the squandering there was at the beginning. They are economising. They are feeling the lack of the nitrates required for the manufacture of explosives."

Our article follows up previous observations in the C. & D. during the past three months, in which attention was called to indications of German shortage in materials for ammunition.

Since the Napoleonic wars of a hundred years ago chemists have had an acknowledged share in helping combatants to fight. Then it was simply a question of gun powder. The British, by the blockade of Pondicherry, endeavoured to prevent Napoleon getting his supplies of nitre, the immediate result of this being that he called into his service such chemists as were available to manufacture nitre in France. This they achieved, and indirectly it brought into being the Le Blanc process for making carbonate of soda, and the whole world was benefited thereby. Napoleon retaliated to the Pondicherry blockade by occupying Sicily, mainly with the view of cutting off our supply of sulphur. Nowadays the chemical materials required in warfare are more numerous than those of a hundred years ago, but, apart from antiseptics and chemical medicines, they are in the same category—namely, explosives. It is one of the most gratifying features of our country's resources that British chemicalmanufacturers have without stint utilised their materials, machinery, and men to help the Admiralty and the War Office in manufacturing the requisite chemicals. It has all been done quietly and efficiently, without fuss or advertisement. If there has been shortage of potash requisite for the chlorate, we have heard little about it. In short, British chemical-industry has proved efficient and sufficient for the extraordinary demands placed upon it by this war. Seven months ago it was feared that the demand for chemicals would be such as to induce some manner of restriction upon their use for any other purpose than munitions of war, but it has not been necessary to place any Government restriction upon the use of any chemical ordinarily employed in medicine or in the preparation of goods handled by retail chemists. For this we ought to be thankful, as the position is very different in Austria and Germany. We have from time to time reported upon the measures taken by the German Government to conserve supplies of glycerin, at the present day one of the most important staples in the production of explosives. There appears to be a real shortage of it in Germany consequent upon diminished imports of fats and oils. The drug-trade in this country has had a recent unwelcome and expensive reminder of this through the advance in the price of Norwegian cod-liver oil, which has doubled its value in a month. Baulked of its supplies of more suitable vegetable and animal fats, the German Government. in a moment of inspiration, became a buyer of

cod-liver oil in Norway, but why it waited until the Lofoten fisherics were in full swing it is difficult to understand. It surely cannot be that the enemy is so enamoured of the submarine that she is making another, the cod, live again to fight the hateful English! Anyway, it is to be done in the shape of nitroglycerin, and the stearin will help to make sausages. Glycerin matters have progressed in Germany since we last reported on Government interference with its free use. The wholesale department of the Deutscher Apotheker Verein has now been entrusted by the Kriegschemikalien-Aktiengesellschaft (War Chemicals Company) with the regulation of the sale of glycerin and nitrates in pharmacy. The regulations, which have been formulated and published in the "Apotheker Zeitung," fix the maximum amount of glycerin obtainable by any one pharmacy at three kilos.  $(6\frac{1}{2}$  lb.) per month, but this is supplied only on condition that the pharmacist undertakes to use it solely in the preparation of medicines prescribed by physicians and in the manufacture of medicinal preparations of which the formulas are in the German Pharmacopæia, the "Ergänzungsbuch" of the Deutscher Apotheker Vercin (C. & D. Diary, 1914), or in its formulas for the preparation of substitutes for proprietary medicines. The use of the glycerin in the manufacture of cosmetics and other toiletpreparations is expressly prohibited. The regulations regarding the use of potassium nitrate and other nitrates in pharmacy limit the amount obtainable by each pharmacy to half a kilo.  $(17\frac{1}{2} \text{ oz.})$  per month, and the use of these nitrates is limited to dispensing medical prescriptions and the preparation of asthma-remedies. In each case the pharmacist purchasing these materials must give a written declaration as to their use, and should larger quantities be required written application for them has to be made to the Kriegschemikalien-Aktiengesellschaft, a written statement being submitted showing the quantities that were used by the applicant from January to June and from July to December 1914. These regulations are indirect evidence of ammunition famine, and the same can be said also of the Austrian War Office efforts at the beginning of this month to get explosive materials by commandeering stocks of gas-liquor, ammonium sulphate, and nitrolim, these being needed as raw materials for nitric acid. The "Nature" writer from whom we quoted in our issue of January 9, p. 34, returns to the vitriol subject. He then said that the continuation of the war by Germany is largely dependent upon that country's supply of sulphuric acid. He again deals with the subject on account of Dr. Reusch having stated in a recent issue of the "Chemiker Zeitung that Germany is beginning to feel the pinch of necessity as regards sulphuric acid. Of this the total German production in 1912 was 1,649,681 metric tons, mostly made from pyrites, of which 80 per cent. was imported, chiefly from Portugal, Spain, and France. These imports are now cut off, and Germany is looking to Norway as a possible source, but that is a doubtful one now. Sulphuric acid is necessary chiefly in the manufacture of nitric acid from nitrates. The "Nature" writer (who signs himself simply "T.," and in whom we think we recognise one of the most distinguished English chemists) says as to Germany's possible supplies of nitrates:

"But she [Germany] has still certain internal sources of supply, as have most Continental nations, and we now see that it is not for nothing that for some years past German chemists and engineers have, under the fostering influence of persons in high places, been straining every nerve to perfect possible synthetic processes of making ammonia and of converting it into nitric acid and nitrates, largely by

the aid of the water-power of Norway. Luckily for the Allies at the present juncture, certain of these processes, such as that of Ostwald, have turned out to be hopeless commercial failures, but there are others which would appear to have in them the promise of eventual and permanent success. We learn that the German Government has just introduced a Bill into the Reichstag providing for a State monopoly of the trade in nitrates for a period of seven years. The preamble explains that, at great expense, the Government has succeeded, in consequence of the stoppage of imports of Chile saltpetre, in establishing a chemical-industry for the fixation of nitrates from the air, and that this industry is to be protected absolutely from all competition. Meanwhile, the price of nitrates, as of sulphuric acid, has steadily risen in Germany, and the shortage is becoming more and more pronounced. The process of depletion of sulphuric acid may be delayed by the action of the Government, which may be driven ultimately to commandeer all supplies in the interests of national defence. For the moment a certain amount is liberated in consequence of the diminished activity of various branches of the chemical-industry—as, for example, the dyestuff-factories—and owing to the economy which has been enjoined in the manufacture of superphosphate manures, partly in consequence of the increased production of basic slag, due to the expansion of the iron industry."

We cannot put British considerations secondary to the chemical and scientific possibilities involved in the technical potentialities of the present situation, but we know that the Germans will leave no stone unturned in their efforts to reach the goal for which they started in the last days of July after almost a generation of preparation. We and our Allies must do the same, every man doing "his bit" to make invasion of the British Isles impossible by meeting and beating the Germans on their own ground; nevertheless, the future historian may, repeating the experience of the Napoleonic wars, have to reckon among the greatest achievements of the conflict developments in chemical industry brought about by the spectre of famine and want.

#### Bromides and Potash Salts.

One result of the European war has been the suspension of various "understandings" or agreements between makers of fine chemicals in Germany, not the least important being that of the bromine and bromide conventions, whose international relations have been broken off, and the document may be regarded as another "scrap of paper." We now learn that the working arrangements hitherto existing between the German Bromine Convention and the Chloride of Magnesium Convention have been abrogated. The members of the Bromine Convention, who have long desired it, are at liberty to produce and sell magnesium chloride, while the makers of the latter who possess plant for the manufacture of bromine, as many do, intend to manufacture and sell bromine in the near future. In interested circles in Germany keen regret is expressed at the termination of the agreement, it being apprehended that prices for both products will gradually fall to the cost of production, with the final result of further prejudicing the position of the potash-works concerned, which are already suffering considerably under the present unfavourable working conditions. This, of course, has no bearing on the British market at the present time, we being dependent entirely on British and American supplies of bromides, the prices of which are more likely to advance than decline. It is acknowledged that the German potash-industry has had a severe setback through the war by the loss of a large proportion of export trade, the position being accentuated by the recent embargo placed on all potassium salts. In order to alleviate the situation, the Federal Council has under consideration a proposal to sanction an increase in the

home prices of potash, in so far as they were reduced by the Potash Act of 1910. The Potash Syndicate has made a provisional calculation of the presumable business that will be done during 1915, which they estimate will be 949,000 tons of pure potash, compared with 1,167,000 tons in 1914. It is calculated that the home trade will take 563,000 tons and the export trade 386,000 tons; the latter figure seems a doubtful quantity in view of the embargo and British "blockade." The exports from Germany in 1914 are reported to have been 531,000 tons, and the home consumption 636,000 In connection with this matter we observe an article by Mr. Thomas J. Keenan, F.C.S., in the "Scientific American" dealing with the possible sources of potash materials for American purposes in view of the stoppage of the German imports. After dealing with the riso of the German potash-industry, Mr. Keenan says that the most promising source among the lake-beds of the West is Searle's Lake in San Barnardino County, California, where borings show that the deposits consist of a mass of salts (sodium chloride) about 70 ft. thick. The structure of the mass reveals a coarsely crystalline and honeycombed form, the spaces being filled with brine. Below a salt-bed extending down for a distance of 23 ft., a brine is found which analyses about 41 per cent, of potassium chloride. A plant has been recently installed for the extraction of the potash by a spraying and evaporating process. This is expected to have an output of 120 tons a day when working at full capacity, but the entire deposit, according to Government estimates, amounts to only 600,000 tons—less than a year's supply. Mr. Keenan also deals with the Portland-cement industry and waste liquors from the beet-sugar and sheep's-wool industries as promising sources of potash. Familiarity with the extent of the available supply of potash in Germany and the cost of production there, leads Mr. Keenan to the conclusion that it would be a hopeless undertaking to attempt competition with present resources. If 150 of the mines now worked in Germany were to ccase producing potash enough would be available in the forty remaining mines to supply the world's requirements. It is said that the best grade of potash sold could be mined, refined, and delivered at the port of New York for about \$8 a ton, and still yield a profit. The price paid in cargo lots by American consumers of this grade of potash is from \$33 to \$35 a ton. The prices explain why the Kali Syndicate is able to expend a million dollars a year in advertising, one-fourth of it in the United States.

#### Benevolent Fund Windfall.

The will of Mr. Thomas Kay, Stockport, has been proved this week (see p. 57), and reveals that 5,000% has been left to the Benevolent Fund of the Pharmaceutical Society. This is by far the largest legacy the fund has received, and the interest on the money will form a welcome addition to the income of the fund.

#### British Dyes, Ltd.

The subscriptions for shares in this proposed company were not sufficient to warrant the directors to proceed to allotment, and the whole matter was reconsidered at Manchester on Wednesday. In the course of the discussion it became apparent that if the user agreement were dropped or modified much greater support would be given. It was, therefore, decided to drop this agreement, and onough promises were made to justify the directors in going on with the flotation: The hitch must have given satisfaction to Professor Otto Witt, of Berlin,

who has written to the "Chemiker Zeitung" again, replying to certain criticisms of his views on the subject by another professor. Dr. Witt says he does not fear at all that the cricket-golf- and bridge-playing Englishman will have enough spare time left to consecrate himself to chemistry, and he discusses at some length the difference between English education and German, very much to the advantage of the German. The curious thing is that Professor Witt got part of his education in England, and if he had had a little more of the cricket and golf he might not have grown to such generous physical proportions as he had the last time we saw him.

Italy, Belgium and the German Bully.

Our Italian pharmaceutical contemporary "Corriere dei Farmacisti," on the occasion of a public subscription for their unfortunate Belgian colleagues, published a poem by the poet Trilussa, in which Belgium was symbolised as a beehive destroyed by a rapacious eagle. Upon this the editor of the "Apotheker Zeitung" wrote to the editor of the Italian journal expressing his surprise at the poem, and informing him that he had immediately suspended the exchange of his journal with the Italian one. Our Italian contemporary responds with an article on the subject, in the course of which the Editor said:

"We have also admired and respected Germany, like all other civilised nations. Our chemists felt the attachment of disciples towards a master for the country which in a few years brought science to a dazzling height, just as we felt for England the due admiration for a people truly imperial in the vastness of their political designs and truly great in the liberal concessions of their Government, and for France the love as to a sister crowned as she is with a diadem of genius and beauty. But, above all, we cannot suppress the thought of Belgium, the small glorious nation who have known how to apply so wisely the German technicality, and have made their small country into a veritable bechive. The God of the Emperor could not, or would not, save Belgium, but may the true, great, and universal God spare Germany!"

Well said, Italian colleague. Germany's accomplishments in science, including pharmacy, are not an excuse for the injuries which have been inflicted on Belgium and its pharmacists in common with all other Belgians.

#### The Freezing-point of Milk.

A REPORT to the Local Government Board by Dr. G. W. Monier-Williams has been issued on the freezing-point of milk in its relation to the detection of added water. The research was conducted owing to statements that as the freezing-point of milk varies within comparatively narrow limits and is readily influenced by the addition of water, this factor is a useful one in determining even small additions of water. Dr. Monier-Williams has examined the matter afresh, and arrives at the following conclusions: The average freezing-point of 141 samples of genuine milk was found to be  $-0.5345^{\circ}$ , the values found ranging from -0.558° to -0.514°. The value given have been subjected to all the necessary corrections, and are probably accurate to about  $\pm 0.002^{\circ}$ , The freezing-point appears to be the most constant of any of the properties exhibited by genuine milk. Although unaffected by the removal of fat from, or the addition of separated milk to, genuine milk, it is raised by the addition of water to the milk. The method may, in certain circumstances, be applied with advantage, as a confirmatory test, to the detection of added water and to the approximate estimation of the amount present. Owing, however, to the experimental difficulties involved in obtaining reliable results, it is somewhat doubtful whether the method is capable of general application for purposes of milk-control.

Essential Oils as Antiseptics.

In our issue of February 20 we reported the Hunterian oration by Sir Watson Cheyne, Bart., F.R.C.S., on the treatment of wounds in war. In the course of the oration the distinguished surgeon referred to investigations by himself in conjunction with Fleet-Surgeon Bassett-Smith and Mr. Arthur Edmunds, with a view to ascertaining the best form for an antiseptie dressing for use by soldiers in Dr. W. Harrison Martindale assisted, we understand, in producing these preparations, and in this month's "Perfumery Record" he follows up the observatious communicated to that journal four years ago on the antiseptic powers of essential oils. It is a racily written article, beginning with the remark that "The French military surgeon confronted with a bad case—a nasty shrapuel-wound or the maybe simpler bullet-wound -whips out his little bottle of Eau-de-Cologne from his nocket and swabs the wound with the perfume." is a sound scientific basis for this practice, as has recently been proved by Dr. Champonnière, and it agrees with Dr. Martindale's observation that geranium oil is antiseptically twelve times stronger than carbolic acid, rosemary oil six times, and lavender oil five times stronger, Dr. Martindale describes the nature of the experiments by Mr. Edmunds with the specially devised cell (t'. & D., February 20, p. 53), and he adds particulars in regard to the bactericidal power of carbolic acid, cresylic acid, corrosive sublimate, iodine, salieylic acid, mercuro-zinc cyanide, paraform, turpentine, alcohol, and various essential oils. Origanum oil and cinuamon oil prove to be very efficient in preventing the growth of microorganisms in the Edmunds cell, but encalyptus oil does not interfere. The communication is illustrated with photographs of Petri dish-cultivations which demonstrate the diffusible antiseptic powers of cinnamaldehyde, cinnamon oil, clove oil, diffusol, and paraform. The observations are particularly interesting as showing that the French military surgeon's method can be improved upon by providing our soldiers with collapsible tubes of ointments containing such essential oils as origanum and cinnamon. Dr. Martindale states that the next step will be to ascertain by clinical experience the limits of toleration of these ointments.

# The "418" Patent.

Ar the Patent Office, before the Comptroller (Mr. W. Temple Franks) and Sir Cornelius Dalton, on March 24. Mr. Potts, on behalf of the Société Anonyme Les Etablissements Poulenc Frères, applied for the avoidance or suspension of patent 17619 of 1907, entitled "Reduction-products of p-amino-phenylarsenie acid and its derivatives," granted to Imray (Farbwerke vormals Meister, Lucius & Brüning). Mr. J. Hunter Gray opposed the application on behalf of Meister, Lucius & Brüning, Ltd.
Mr. Potts, in opening the case, said that owing to the

Mr. Potts, in opening the ease, said that, owing to the evidence not being completed, he thought he should have to ask for an adjournment. The substance referred to in to ask for an adjournment. The substance referred to in the patent is a similar product to salvarsan, although it has nothing to do with that. It is known for short as "418," that being the number of the experiment made by Ehrlich when this substance was produced. Mr. Potts gave an interesting account of the genesis of "418." Atoxyl was investigated at the Liverpool School of Tropical Medicine, and the work done was followed up by Ehrlich. He choided the constitution and this propagal the way for elucidated the constitution, and this prepared the way for elucidated the constitution, and this prepared the way for systematic experiment with various arsenical compounds. No. 418 was the precursor of salvarsan ("606") and neosalvarsan ("914"). Mr. Potts then explained that the object of the long series of experiments was to discover a compound that, while killing the parasite in the body, is harmless to the host. To do this in one dose the ratio between the heroic and fatal dose must be considerable, With atoxyl this ratio is too low, but "418" was the most

important advance. It is used as a remedy for sleeping. sickness. In spite of the fact that it is not so good as sickness. In spite of the fact that it is not so good as salvarsan, it exhibits certain advantages and makes possible different avenues of attack upon a parasite which has, for example, become immune to another arsenical compound. Poulene Frères have been able to improve "418" by increasing its stability, these improvements being the subject of applications for patents 17 ("Aliphatic acids containing an arsenoarylamine group") and 18 ("Aliphatic acids containing an arsenoarylamine group") of 1915. In reply to the Comptroller, Mr. Potts said that, so far as he is aware, "418" has not had much sale, but has been used experimentally. It is capable of producing complete sterilisation of the blood. The substance is not the subject of a patent in France, as it refers to a pharmaceutical product. The national interest arises from the importance of being able to supply remedies for sleeping-sickness. In duct. The national interest arises from the importance of being able to supply remedies for steeping-sickness. In reply to Sir Cornelius Dalton, Mr. Potts said May & Baker are the selling-agents for Poulenc Frères, but it is hoped that the substance may be made in this country eventually. Mr. Gray, opposing the application, said it was wholly misconceived. "418" has never been sold or asked for, and there is no evidence brought forward that it is even useful. The emergency legislation under which the application is made was never intended to cover eases like this.

The congregacy legislation under which the application is made was never intended to cover eases like this.

The Comptroller: It may be that, although the patent has not been used, the applicants have found out that it has uses. They cannot supply it in England, however, until

they obtain a licence.

Mr. Gray urged that so far the applicants have done Mr. Gray urged that so far the applicants have done nothing but make a few experiments. To make a product in France and only export it to this country is not doing any good to the public here. The patent would not be infringed if used for experimental purposes. There is no sleeping-sickness in this country. Ehrlich tested salvarsan in 5,000 cases before it was put on the market. It would be dangerous to put such a preparation on the market without preparation. without proper testing.

Mr. Potts, in answer to Sir Cornelius Dalton, admitted that his application was premature as regards evidence, but his clients would not be able to make the substance without

a licence from the patentee.

The Comptroller said it would be necessary to look into the applications for patents which Poulenc Frères have filed; and Mr. Gray claimed that he should be given an opportunity of seeing the documents and making experiments. Mr. Gray contended that the drug was not of uso in syphilis, but Mr. Potts quoted from Ehrlich's work a report of three cases in which complete sterilisation of the blood was obtained.

Mr. Gray then stated that there is no power under the emergency Act to grant this application. The Rules of August 21 were made under the first Patents, Designs, and Trade-marks (Temporary Rules) Act, and not under the amending Act of August 28. The patent was granted to Mr. Imray, who is certainly not "a subject of a State at

war with his Majesty.

The Comptroller thought that the Acts and Rules should be taken together, and it is provided that the person entitled to the benefit of the patent is the person to whom it is granted. A retrospective rule would, however, cover any objection.

Mr. Gray urged that some limit should be put upon these applications, especially as the English company is being carried on by officials appointed by the Board of Trade.

The Comptroller: There have been cases of sleeping-sickness in this country. How does it hurt you to grant a licence to use a product that has not been utilised so far? In reply to Sir Cornelius Dalton, Mr. Potts said his clients are prepared to pay a reasonable royalty on the product sold in this country

The Comptroller said the case would be adjourned for the production of further evidence. This should be submitted to him, and he would decide whether any further hearing

would be necessary.

#### TINNEVELLY SENNA.

In further reference to the embargo which had been In further reference to the embargo which had been placed on the export from British India of medical and surgical stores of every description, we now learn from a Press communique that this has been modified so as to permit the exportation of senna and cinchona-bark to the United Kingdom.

WOOD-NAPHTHA must be coloured before it is sold in Sweden, so that it cannot be mistaken for alcohol. It is suggested that the same course might be adopted in the United States, where a very large quantity of wood-spirit

# Inventions

#### Which have Become Public Property.

VII.

[Continued from The Chemist and Druggist, March 20.]

Phenyl-dihydro-quinazoline. The tannate is used as

an appetiser and preventive of seasickness.

TRADE-MARK: No. 98230, registered in 1892 by Kalle & Co., Biebrich o/R., Germany. The trade-mark, it should be noted, is a label with the word "Orexin," name and address, etc., but the exclusive use is dis-claimed of the added matter except the name and address. The registration was renewed in 1904.

PATENTS: No. 13343 of 1889, "Improvements in the

Production of Quinazoline Derivatives," granted to the above-named firm. The patent became void in the seventh year. The corresponding patent in the United States is 428286 (1890), "Phenyldihydroquinazoline."

The following is an example of the process of manu-

facture given in the British specification:

Ten parts of o-nitrobenzyl-aniline, prepared, for example, in the manner described by Zellmann and Stichel ("Berl. Ber." xix. 1604), is heated about two hours "at the reflux cooler" with 20 parts of concentrated formic acid, and the o-nitrobenzyl-formanilid thus obtained is then precipitated by means of water. It crystallises in yellowish needles melting at 77° C. The same body may be obtained by heating a henzolic solution of 10 parts of o-nitrobenzyl chlorido with 8 parts of sodium formanilid. To reduce the o-nitrobenzyl-formanilid all the well-known reducing-agents may be employed. If, for example, 10 parts of o-nitrobenzyl-formanilid dissolved in 30 parts of alcohol is heated with 14 parts of tin and 28 parts of chlorhydric acid, a double salt of the chlorhydrate of phenyl-dihydroquinazoline with stannous chloride crystallises on cooling. It melts at 130° to 134° C., and has the formula C14H12N2,HCl.SnCl2.

By precipitating the tin with sulphuretted hydrogen and evaporating the solution is then obtained the chlorhydrate of phenyl-dihydroquinazoline.

Orphol. Ten parts of o-nitrobenzyl-aniline, prepared, for example,

Orphol.

Bismuth  $\beta$ -naphtholate. Internally an antiseptic and

TRADE-MARK: No. 190732, registered in 1896 by Dr. F. von Heyden Nachfolger, Radebeul, near Dresden, Saxony. Registration renewed in 1909.

PATENTS: Nos. 13291 of 1892, "Improvements in the Manufacture of Antiseptics," and 15361 of 1894, granted to the above-named firm. The first patent remained in force for the whole period; the second became void in the seventh year. The United States patent is 516358 (1894).

The first of these patents includes about thirty bismuth products, among them being bismuth  $\beta$ -naphtholate. The methods of making bismuth phenolate and bismuth resorcinate are described in the British specification and in the United States patent-specification one of the examples given is bismuth  $\beta$ -naphtholate. The ingredients used are 14.5 kilos.  $\beta$ -naphthol, 4 kilos. caustic soda, and 12 kilos, bismuth nitrate. The method employed is similar to that to be described under "Xeroform."

#### Orthoform.

Methyl ester of m-amido-p-oxy-benzoic acid. Analgesic and antiseptic.

Trade-Mark: No. 215951, registered in 1899 by the Farbwerke vormals Meister, Lucius & Brüning, Hoechst a/M. Registration renewed in 1912.

PATENTS: No. 12179 of 1897, "Manufacture of Esters of m-oxy-p-amido-benzoic Acid," and 22106 of 1908, "Manufacture of Amidoacylamido-carboxylic-acid Esters," granted to the above-named company. The first-named granted to the above-named company. patent became void in the fifth year, the second in the ninth year. The United States patents are 610348 (1898) and 625158 (1899), and the French patent 256225 (1897).

The following is one of the examples given in the

second United States patent-specification:

Ester of p-amido-oxy-m-amidobenzoic Acid.—On 1 part by weight of the hydrochlorido of p-oxy-m-amidobenzoic acid, obtained by reducing p-oxy-m-nitrobenzoic acid with tin

and hydrochloric acid, is poured 5 parts by weight of ethyl and hydrochloric acid, is poured 5 parts by weight of ethyl or methyl alcohol; the mixture is then saturated with hydrochloric acid, and finally heated on a water-bath. On cooling, the hydrochloride of the oxy-amido-ester separates out from the solution. It is then filtered, and the free ester obtained by treating the hydrochloride with sodium carbonate. The ester crystalliscs in white needles, and melts above 100° C.

# Dutch Pharmacy Legislation.

WE referred in the C. & D., January 23, p. 49, to the new Pharmacy Bill which had been introduced into the Netherlands Legislature. This Bill has since been the subject of many conferences by the Nederlandsche Maatschappij ter Bevordering der Pharmacie and its branches, while other bodies, such as the Medical Society, Druggists' Society, Assistants' Association, and the Society for Combating Quackery, have had meetings to discuss various aspects of the Bill. When the Bill was presented in the Second Chamber it was thought that the discussion in the Chamber would not take place until after Easter, so that when it became known that it was to be considered on February 23 there was much activity in pharmacy circles to bring the objections against the Bill before the House. It happened, fortunately, that Professor van der Wielan and Mr. G. J. Salm had just completed a study of the Bill, and this was used by the Nederlandsche Mattschappij ter Bevordering der Pharmacie as the basis of a petition to the Second Chamber-The petition states that the Bill was originally introduced on account of the numerous poisoning cases that have occurred, and points out that all these were caused by poisons supplied by unqualified vendors. This shows that pharmacists have exercised proper care in the sale of poisons, and yet the law relating to pharmacists is to be increased in severity. The rights of widows and others to carry on the business of a deceased pharmacist are to be limited to five years. The privileges granted to pharmacists are not considered to be sufficient to compensate for the new obligations that are imposed. pharmacist, it is contended, is the only person who should be entrusted with the sale of medicaments. Nothing in the way of regulating the conduct of pharmaceutical assistants who carry on business as druggists is contained in the Bill. The Medical Society (Nederlandsche Maatschappij tot Bevordering der Geneeskunst), in stating objections to the Bill, takes exception to the provisions by which a medical man may be deprived of his right to practise pharmacy, and to the clauses which allow pharmacists to have branches managed by a pharmaceutical assistant in country districts. It is stated also that a physician should not be held liable for the quality of the medicaments he delivers. The Association of Wholesale Dealers in Chemicals, Drugs, and Pharma-The Association of ceutical Products object to the provision of personally conducted pharmacies, which would prevent pharmacies taking advantage of the limited companies law. The Nederlandsche Apothekers Vereeniging, an Association of about thirty pharmacists ineligible for membership in the Dutch Pharmaceutical Society, suggest that the Bill be thrown out and another drafted in consultation with representatives of all parties concerned. This Association would like to have alternate Sunday closing made obligatory. Professor van der Wielan and Mr. Salm's summary of the Bill also suggests that physicians should be compelled to confirm telephone messages in writing. Opposition to the Bill has also been shown in the Second Chamber because the rights of unqualified druggists are not sufficiently respected, notwithstanding the fact that the Bill was introduced to counteract the dangerous development of these practitioners. Another problem which has been raised in the "Pharmaceutisch Weekblad" is as to the position of married women who desire to practise pharmacy. The Nederlandsche Maatschappij ter Bevordering der Pharmacie has, however, been advised that a married woman pharmacist could carry on business if she did so with her husband's consent. view is not shared by others, who contend that the new law will exclude entirely the practice of pharmacy on their own account by married women.

## Trade-Marks.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £2) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," March 10, 1915.)

"ACYTOSAL"; for a medicine (3). By Oppenheimer, Son & Co., Ltd., 179 Queen Vietoria Street, E.C. 365,773.

"('RADIOT' PURE CHARCOAL," etc., on labol; for charcoal (4). By the Furness Chemical Co., Ltd., Greenodd, near Ulverston. 365,059. (Associated.)

"BLOCKADE"; for indiarubber goods (40). By J. E. Keirby & Sons, Ltd., Swinton, near Manchester. 365,364.

Circular device of a Beefeater, with words "A BEEFEATER" for food-substances (42). By Sadler's Mustard, Ltd. 26 Great Guildford Street, Southwark, S.E. 363,48 (Associated.)

Device of lion and eagles on globe, with letters "E.R.Y." ("E.R.Y." disclaimed); for food substances (42). By W. C. Smith, Durley Road, Bournemouth, West.

"LION" on shield supported by two lions over words "THE VIKING FOOD AND ESSENCE Co.," etc.; for meat-essence, etc. (42). By the Viking Food and Essence Co., 12 Brandon Road, King's Cross, N. 364,681. (Associated.)

"MEDE-LOIS"; for olive oil (42). By G. Clayton, Essex Road, Enfield. 365,455.

"Sovcor"; for feeding-cake (42). By Olympia Oil and Cake Co., Ltd., Selby, Yorks. 365,400.

"Convena"; for mustard (42). By F. G. Hitchman, 192 Church Street, Wolverton. 365,691.

"Grunto"; for all goods (42). By D. Brown & Son, Ltd., Donaghmore, co. Tyrone. 365,695.

"Риог"; for food-substances (42). By J. Thompson & Sons, Ltd., Donegal Quay Mills, Belfast. 365,768.

"Sanervo"; for food-substances (42). By W. H. Day, 86 Potternewton Lane, Leeds. 365,890.

"STRETTON NATURAL WATER, SHROFSHIRE, ENGLAND," with illustration of factory ("Stretton" disclaimed). By Jewsbury & Brown, 7 Ardwick Green, Manchester. 365,379. (Associated.)

"Viscol," with label devices; for a compound for water-proofing leather (50). By Viscol Co., 200 First Street, Cambridgo, Mass., U.S.A. 361,414.

"Dac"; for polishes, etc. (50). B 201 Antrim Road, Belfast. 365,170. By R. J. McBride,

"Paripan"; for artificial pumice-stone blocks (50). By the Copal Varnish Co., Ltd., 8 Glasshouse Street, W. 365,660.

#### A Bloomsbury Baby.

THE "Square Chronicle" will have to take eare. It is almost forgetting that it is the baby of Bloomsbury publica-tions, and that the grandmother is still alive. The March tions, and that the grandmother is still alive. The March issue is a particularly lively number, and notable on account of contributions from two Presidents. Mr. J. C. Umney (President of the Past Students' Association) writes one, and in the course of it says:

"We often claim that there is no such thing as sentiment in business, but there can be no doubt that those friendships forward while we were base together at the

friendships formed while we were boys together at the Square have done more in the years that have intervened to keep us united than all the rules and regulations of the Pharmaceutical Society. We are bound together now, as we never were before, by the common interest of serving our country in her hour of need. Some are on active service across the Channel, others are mobilised for home defence, while the bulk of us are doing the necessary, though less romantic, work of keeping the business-end going, and

we all need to be in conscious touch with one another."

The other presidential contribution is by Mr. Edmund White (President of the Pharmaceutical Society), whose theme is his visit to India. This is introduced by the

editorial remark:
"Mr. White's mysterious disappearanee last autumn which perturbed the pharmaceutical world, but we are glad that the mystery has now been cleared up without the necessity of calling in 'Sherlock Holmes and my friend Watson

Mr. White states that he sailed from Tilbury on September 26 by the P. & O. *India*, and reached Bombay on October 16, after a practically uneventful passage. Howrites briefly about Malta, Port Said, the Sucz Canal, and Aden. While in Bombay he called at the English pharmacies there. In regard to the bazaars he says: "In the cles there. In regard to the bazaars he says: "In the native bazaars a very large trade is done in drugs and chemicals, not only in native remedies, but also European medicines, which appear to be gradually displacing the native drugs, about which little is actually known except their empiric use by native doctors. In the native druggists' shops one finds conditions very novel as compared to those one is accustomed to see in a European pharmacy. I was astonished to find that in a country where the cert. those one is accustomed to see in a European pharmacy. I was astonished to find that in a country where the earnings of the greater part of the population can be reckoned in pence per day it is possible for them to spend such considerable sums as they do not only in expensive drugs and chemicals, but also in comparatively high-priced proprietary articles. The two classes of proprietary medicines which appear to be in chief demand are those for the renewal of youth and hair-dyes. Apparently climatic and social conditions create a considerable demand for the former, and the latter class is complementary to the first."

The impressions one received during a visit to India whether the pression one received during a visit to India whether the pression one received during a visit to India whether the pressions one received during a visit to India whether the pressions one received during a visit to India whether the pressions one received during a visit to India whether the pressions one received during a visit to India whether the pressions of the pression of

must always be very incomplete, even for a visit of some-months' duration. In England it is difficult to realise that our Indian Empire includes a great variety of nations differing more in language, customs, and religion than the nations in Europe. But at least one may say this: that the Government of India will be an eternal tribute to the the Government of India will be an eternal tribute to the government abilities of the British race. One may travel for days in certain parts of India without seeing any evi-dence of 'mailed-fist' control. Yet somewhere in the dis-trict you will find an official of the Indian Government administering British rule and justice over an area of hundreds of square miles, without any external signs of force beyond the presence of a tew native policemen. The explanation of this is, of course, the respect which has been inculeated in the native mind by long experience of the justice and purity of British rule."

## New Books.

Any book published in the United Kingdom can be supplied toour subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Peddie, J. Taylor. A Study of the First Principles of Production, and the Relation of Science to Industry. 7½×4¾. Pp. iv+231. 5s. net. (Longmans, Green & Co.) [Consists of twelve chapters, including an introduction, science being mainly chemistry. Besides chapters by the author there is a very long one by Mr. S. Roy Illingworth. A.I.C., B.Sc., entitled "The Co-operation of Science and Industry," and a reprint of one by Sir Norman Lockyer, K.C.B., revised by Professor R. A. Gregory, on "The Influence of Brain Power on History and Industry," this being an abridgment of Sir Norman's address to the British Association in 1903. An article on the steel industry by Mr. William Lorimer, I.L.D., chairman of the Steel Co. of Scotland, Ltd., is printed as one chapter, as also is Professor Percy Frankland's recent address to the Birmingham and Midland Section of the Society of Chemical Industry on "The Chemical-industries of Germany." Mr. Peddie is the originator of the organisation now called the Institute of Industry and Science, whose object appears to be the co-ordination of these branches of work, particularly the employment by British manufacturers of more technical homes. the employment by British manufacturers of more technical

Woodman, Alpheus G., and Norton, John F. Air, Water, and Food from a Sanitary Standpoint. Fourth edition. 9×5½. Pp. vi+248. 8s. 6d. net. (John Wiley & Sons and Chapman & Hall, Ltd.) [A book of nine chapters on these "three essentials of human existence." The analytical methods employed are described, those for foodstuffs being methods employed are described, those for foodstulis being the fullest, but the notes are confined to milk, butter, cereals, fermented liquors, and flavouring extracts. Useful tables are given in this and other chapters. The book was originally written by the late Mrs. Ellen H. Richards and Mr. Alpheus G. Woodman, Associate Professor of Food-analysis in the Massachusetts Institute of Technology, and hear been found of saming in the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States and the Massachusetts of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the United States as a second point of the Massachusetts of the Massachuse and has been found of service in the United States as a text-book.7

## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National
Health Insurance Acts.

#### Bow Drug Stores, Ltd.

In connection with the inquiry, reported in the C. d. D., February 6, p. 43, as to the representations made by the West Ham Insurance Committee that the continuance of the Bow Drug Stores, Ltd., on the list of persons and firms supplying drugs or appliances to insured persons would be prejudicial to the efficiency of the service, the National Health Insurance Commission (England) have decided not to order the removal of the name of the company from the list. In the circumstances disclosed by the report of the Inquiry Committee, however, the Commissioners have decided, in view of the failure of the company to discharge its obligations under its agreement, to withhold the sum of 5l. from the special Parliamentary grant which would otherwise be payable to the Committee for the purposes of Medical Benefit. Under Clause 9 (1) of the agreements with persons or firms supplying medicines, the Committee are entitled to recover this sum from the Bow Drug Stores, Ltd., either by eleduction from any moneys payable to the company or otherwise.

#### Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

#### ENGLAND.

Birmingham.—The Finance Sub-Committee has submitted to the Insurance Committee the following statistics regarding the cost of drugs: For the year ended January 11, 1914—Prescriptions dispensed, 996,224; cost. 33,581l.: average cost, 8.5d. For the medical year ended December 31, 1914—Prescriptions dispensed, 939,003: cost, 30,922l.; average cost, 7.75d. For the former period 84 per cent. (27,096l.), and for the latter term 76.5 per cent. (23,658l.) of the chemists' accounts were paid. The Medical Benefit Sub-Committee has recommended to the General Committee that sixteeu practitioners, considered by the Panel Committee to have been guilty of excessive prescribing during 1913, should be surcharged in sums amounting to 305l. The same Sub-Committee has requested the General Purposes Sub-Committee to earry out a scheme for the checking and analysis of prescriptions. It is proposed to appoint a pharmacist at a salary of 150l. to 200l. per annum, and the necessary assistants, to the office staff, and that the Panel Committee should contribute a sum equal to the pharmacist's salary. These arrangements, it is stated, will not involvo the Committee in any increased expenditure, and no contribution will be requested from the Pharmaceutical Committee.

**Blackburn.**—A deputation from the Insurance Committee has interviewed the Commissioners regarding defici-

encies in the Drug Fund and the examination of scripts under Regulation 40. The Commissioners expressed the view that the Blackburn Committee had fully carried out the requirements.

Burton-on-Trent.—At a meeting of the Insurance Committee on March 11 it was stated that during the last quarter of 1914 10,996 prescriptions (value 222*l*.) were dispensed, compared with 12,555 prescriptions (value 376*l*.) in the last quarter of 1913. The Medical Benefit Sub-Committee reported that the Pharmaceutical Committee had objected to the adoption of ten stock mixtures on the ground that they did not come within the scope of the clause. The Committee, however, expressed their willingness to use a Formulary of ten stock mixtures, providing a dispensing-fee of 2*d*. is allowed.

Reat.—The Finance Sub-Committee reported to the Insurance Committee on March 24 that a conference had taken place between representatives of the Panel, Pharmaceutical, and Insurance Committees in regard to the cheeking of prescriptions. The representatives of the Panel Committee stated that they did not think that the Panel Committee would be prepared to withdraw their objection to the Pharmaceutical Committee receiving funds under Section 33 (2) of the amending Act, but that they would be prepared to ask their Committee to consider whether they would provide 100% per annum from private funds towards the cost of checking and analysis of prescriptions. The representatives of the Pharmaceutical Committee stated that their Committee would object to the Insurance Committee entering into an arrangement with the Panel Committee alone, but the Commissioners had stated that there would appear to be no objection to such an arrangement. Mr. J. E. French, chemist, proposed that the matter should again be referred to the Panel Committee, but the motion was defeated and the report was adopted. The Medical Benefit Sub-Committee reported, with reference to the question of the adequacy of the arrangements made for the supply of medicines to the insured in Gillingham on Sundays (C. & D., February 6, p. 44), that the District Committee had suggested that the local doctors and chemists should confer and arrange a scheme whereby any doctor will be able to inform a patient of one chemist who will be open or in attendance on his premises during ordinary closing hours. The Sub-Committee had approved of this suggestion, and had asked the District Committee to arrange for such a conference, and to report the result.

Lancashire. — A Conference of representatives of Lancashire Insurance Committees was held at Blackburn on March 19 to consider the deficits in the 1913 Drug Fund in the various areas in Lancashire and the establishment of a central checking-office for the county. The following Committees were represented at the Conference: Blackburn, Blackpool, Bolton, Burnley, Bury, Liverpool, Manchester, Oldham, Preston, Rochdale, St. Helens, Salford, Southport, Stockport, Warrington, and Wigan, The Lancashire Pharmaceutical Committee was represented by Messrs, A. Peake, A. L. Crabtree, and W. I. Scholes, Mr. Alderman Watson (Blackburn) was appointed Chairman, Mr. Walter Davies (Chairman of the Manchester Insurance Committee Vice-Chairman, and Mr. II. Whittaker (Blackburn) Clerk of the Conference. Statistics relating to the 1913 and 1914 Drug Funds in the different areas were submitted, from which we extract the following:

Arca		Insured Persons		Number of Prescriptions		Average Cost per Prescription (pence)		Cost of Drngs per Insured Person (on Doctors' lists)		Percentage of Chemists' Accounts Paid	
		1913	1914	1913	1914	1913	1914	1913	1914	1913	1914
Barrow-in-Furness Blackburn Blackpool Botton Bootle Burnley Bury Lancashire Liverpool Manchester Oldham Preston Hochdale St. Helens Salford Southport Stockport Warrington Wigan		22,160 56,856 12,450 66,548 18,315 47,996 23,861 659,320 198,846 60,015 42,827 30,693 17,006 38,928 20,205 30,251	23,150 59,374 14,463 70,746 20,206 50,129 25,370 614,670 223,257 63,795 46,000 38,471 32,437 17,307 45,659 23,067 32,151	62,447 213,263 40,259 279,198 50,790 177,391 73,496 1,861 050 632,798 1,286,124 220,000 166,103 118,522 74,932 405,748 44,447 163,757 65,709 116,416	69,675 203,530 43,976 261,511 57,037 155 114 74,682 1,721,852 667 286 1,207,816 176 000 158,325 116,536 88,442 43,892 168,305 66,995 111,904	7.75 7.92 7.4 7.75 8.7 8.93 8.5 7.1 8.16 9.5 8.30 6.77 7.1 8.08 8.46 7.73 7.03	9.25 8.51 8.2 7.93 9.3 8.35 9.45 9.17 9. 8.88 8.64 6.93 5.1 8.35 8.09 8.35 7.19	s. d. 1 10.2 2 5.73 2 0 2 8.51 2 0.2 2 9. 2 2.4 62 5 2 1.9 63 2.6 2 4.5 3 1.15 2 5.13 1 4.25 (2 8.8 1 9.13 2 1.9 (2	F. d. 2 3.1 2 5.18 2 1 5.18 2 1 1 2 2.3 2 1.85 2 3.9 2 3.6 6 2 1.7 2 2 2 6.58 2 2.17 1 11.5 61 6.4 1 9.05 2 5.85 2 0.17 2 1	100 85 100 75,72 100 82,23 89,73 100 60 65 85 94,17 100 66,66 100 77,76	80 73.64 90 68.42 78 77.5 59.3 66.66 72.37 75 80 65 83.90 85 90 100 73.84 88

(a) Excluding doctors dispensary cases; (b) doctors' dispensary returns for 1914 not yet complete; (c) based on "mean count" of insured persons (if accounts paid in full).

The following figures for the whole of Lancashire were given:

*		
	1913	1914
Number of prescriptions dispensed  Average cost per prescription  Average number of pre-criptions per insured person  Number of insured persons  Cost of drugs per insured person (assuming accounts paid in full)  Deficit before putting Reg. 40 into operation  Drug Fund (including latest credits)  Chemists' accounts chargeable to Drug Fund	5,888.698 7,06d. 3.3 1,780,984 2 1.4d. £20,980 £167,534 £188,515	5,569,127 7,64d. 2,83 1,928,200 1s, 16,14d. £17,363 £160,557 £177,921

After opening remarks by the Chairman and Dr. Wafer Byrne (Liverpool), Mr. Harry Kemp (Manchester) said that when the chemists entered into their contracts they were undoubtedly under the impression that the amount allowed for drugs and appliances was adequate, and the actuarial figures supplied justified them in their belief. From the first chemists pointed out that they depended largely on the good will of the medical men, and in that respect their hopes had been delusive. He (Mr. Kemp) was one of a deputation that waited on Mr. Masterman in regard to the question of the overspent Drug Funds for 1913 and 1914, and Mr. Masterman made it clearly understood that, while there were at that time no funds available for making up the deficits, he was satisfied that the chemists had a legitimate claim to consideration from the Government, considering the novelty of the conditions, and also that the chemists were suffering from the irresponsibility of the prescriber, irresponsibility in the sense that, while the Regulations gave power for surcharging, the difficulty of bringing into operation Article 40 was such that in many instances it was practically hopeless. Mr. Masterman made it clear that the Commissioners would do nothing until every affected area had put Article 40 into operation, for the reason that, from the Commissioners would do nothing until every affected area had put Article 40 into operation, for the reason that, from the Commissioners would do nothing until every affected area had put Article 40 into operation, for the reason that, from the Commissioners would do nothing until every affected area had put Article 40 into operation, for the reason that, from the Commissioners would do nothing until every affected area had put Article 40 into operation, for the reason that, from the Commissioners would do nothing until every affected area had put Article 40 into operation, for the reason that, from the Commissioners would do nothing until every affected area had put Article 40 into operation, for the rea

That this Conference urges the Insurance Commissioners to consider, at the earliest possible moment, the question of grants to the various overspent Insurance Committees with a view to meeting at least part of the deficits in the Drug Fund for 1913.

Seconding this motion, Mr. R. Lord Gifford, Ph.C., J.P. (Blackburn), said that the fact that Insurance Committees are unable to discharge their liabilities has the effect of discrediting the Act. Mr. Speakman (Salford) spoke of the difficulty they found in putting Article 40 into operation in Salford. To avoid being unfair either to chemists or doctors the reasonable thing in the interests of the insured is to arrive at some agreement acceptable to both doctors and chemists. Mr. P. Delancy (Warrington) considered that by this time the Commissioners must have seen that Regulation 40 is impracticable. One Committee had spent 100% in putting the regulation into operation, and had recovered 4% in one case and 6s. 3% in another. Mr. Davics (Mahchester), dealing with the discounting clause, said he did not think the people who drafted the clause ever saw what it meant. They had a general idea that in rare instances chemists might be asked to face a small deficit but they never dreamt that they would have to face such large deficits as had accrued. He contended that, whatever the legal position might he, there is a moral obligation to pay chemists, and chemists ought to bring this home to the Commissioners. A Departmental Committee had inquired into, and admitted, the claims of Approved Societies on account of excessive sickness, and surely it is common sense to ask for more money to pay for drugs provided for that excessive sickness. Still, Insurance Committees must not shirk their resuonsibilities under Regulation 40. He suggested they should ask the Commissioners to hold an inquiry, by a Departmental Commissioners to hold an inquiry, by a Departmental Commissioners to hold an inquiry, by a Departmental Commissioners decored it might lead to the prescribing of cheap

drugs. The meeting passed the resolution unanimously. Mr. Peel (Blackburn) moved the following resolution:

That in the opinion of this Conference it is desirable that the Commissioners should, at an early date, appoint a Departmental Committee to inquire into the cause of, and remedies for, the continuing deficiencies in the Drug Fund, including an amendment to Regulation 40.

This was also earried unanimously. A draft estimate of the annual cost of the proposed Central Bureau for checking, analysing, and scrutinising 1,000,000 prescriptions put the expenditure for staff, etc., at 8761. (about 17s. 6d. per 1,000 prescriptions). It was decided that it is desirable that a Central Checking Bureau for Lancashire be set up, and that the draft scheme should be submitted to each Committee in the county for consideration; and that if a sufficient number of Committees indicate that they are favourable to the establishment of the Bureau, a further meeting should be called at an early date to discuss the matter and set up a Bureau if they feel warranted in so doing. The tollowing were appointed an Executive Committee to deal with the matters discussed: Alderman H. Watson, Mr. R. Peel, and Mr. R. Lord Gifford, J.P., Ph.C. (Blackburn), Mr. W. Davies (Manchester), Dr. Wafer Byrne (Liverpool), and Mr. W. H. Tyrer (Wigan).

**Leeds.**—Payments have been made to chemists of 60 per cent, of the amounts of their accounts for January.

London.—At a meeting of the Insurance Committee on March 25, the Finance Sub-Committee recommended that provisional payments, not exceeding in the aggregate 2,0001., be made to the Pharmaceutical Committee for administrative expenses for 1915, subject to the approval of the Commissioners. The Sub-Committee recommended that the following payments be made to chemists: For the medical year 1914, 4201. 5x.; for the medical year 1915, 7221. 15s. 11d. It was decided to pay to chemists, on account, 5d. per prescription for February, and that the January accounts be paid in full at once. The Medical Benefit Sub-Committee reported that the Panel Committee had furnished particulars of their investigation of eighteen cases of alleged excessive prescribing in May 1914 (C. & D., March 20, p. 50). The Sub-Committee recommended that four practitioners who, in the opinion of the Panel Committee, had been guilty of excessive prescribing, should be surcharged in sums varying from 10s. 5d. to 261. 4s. The Sub-Committee also reported that during February the names of two chemists had been withdrawn from the panel list, and that the names of three chemists had been added to the Fist during the same period. The Medical Service Sub-Committee reported that they had considered ten complaints by, or en beha.f of, insured persons against panel practitioners; three of these were substantiated, three were found not proven, and it was recommended that one case should be referred to the Medical Benefit Sub-Committee, and that in the remainder no action be taken. There was one complaint against a medical man, which is to be referred to the Commissioners.

Plymouth.—The deficiency in the Drug Fund for Plymouth is 1,111/. 4s. 6d. The total amount of the Drug Fund in the area is 2,931/. 8s. 7d., and the chemists' accounts 4,042/. 13s. 1d. For the Devonport area the Drug Fund is 1,597/. 12s. 7d., the chemists' accounts 1,411/. 8s. 5½d., and the surplus 186/. 4s. 1½d. The average cost of drugs per insured in Plymouth is 2s. 8½d., in Devonport 1s. 8½d. The Medical Benefit Suh-Committee recommend the appointment of a Cheeking Committee, and of a checker to analyse the prescriptions.

Portsm uth.—At a meeting of the Pharmaceutical Committee, held on March 19, it was reported that for the third quarter of 1914 35.070 prescriptions were dispensed, for which 1.1701. was claimed and 1.1621, allowed. For temporary residents, 125 prescriptions (value 41, 5s. 9d.), and for Sanatorium Benefit patients 314 prescriptions (value 201.) were dispensed in the same period. It was agreed that further application should be made for the 201. balance still owing on these accounts. The Clerk of the Insurance Committee, who was present, stated that no further instructions had been received from the Commissioners, but the Sanatorium Benefit and temporary residents' accounts would be paid at an early date. It was decided to ask for payment of 90 per cent, of the present quarter's accounts on presentation, and that application should he made for the amounts owing on scheduled drugs. Regarding the decision of the Commissioners that the adoption of a local Formulary is entirely in the hands of the Panel Committee, the meeting felt that this is adding insult to injury. The checker attended, and submitted rules for cheeking. These are to be further considered. It is hoped that the checking of the present month.

salford.—At a meeting of the Insurance Committee held on March 18, the Clerk reported receipt of a letter from the local Medical and Panel Committees stating that they had further considered the allegations of excessive prescribing against sixteen panel practitioners, and that on the evidence presented to them they could see no grounds for recommending that the practitioners be surcharged. The Chairman stated that the Committee held something like 400l. belonging to the sixteen, and added that he understood an offer had been made by the practitioners to the Pharmaceutical Committee to settle the matter, but it had been refused. Mr. Sutton explained that there were 152,000 prescriptions, and advised the chemists to accept the doctors' offer. Mr. Gill said the over-prescribing represented 1,100l., and the chemists had been offered 300l., which they considered inadequate. Dr. Garrard stated that any offer that had been made in the way of compromise had been quite unofficial. The matter was remitted to the Medical Benefit Sub-Committee for investigation and report.

Smethwick.—The Medical Benefit Sub-Committee reported to the Insurance Committee on March 23 that in future a list of the revised prices of the mixtures, etc., contained in the local Pharmacopæia will be issued to practitioners and chemists monthly, along with the supplementary Tariff. The Finance, General Purposes, and Deposit Contributors' Sub-Committee recommended payment to chemists of 90 per cent. of their accounts for the quarter ending March 31, or 450l., whichever is the lesser amount.

surrey.—At a meeting of the Insurance Committee held on March 24, the Medical Bencfit Sub-Committee recommended that advance payments to chemists for the quarter ending June 30, 1915, be at the rate of 90 per cent. of the accounts as rendered. The Sub-Committee reported consideration of an application from chemists in Richmond for the refund of amounts deducted from their accounts for the months January to August, 1914. The chemists considered that the articles disallowed were not included in the list of prohibited articles issued in December 1913, and on inquiry the Sub-Committee found that the articles in question were mixtures which would have been supplied without question if the name of the firm manufacturing the mixture had not been mentioned on the prescription. They recommended that 75 per cent. of the amounts claimed be refunded, after the accounts had been re-checked. The Pharmaceutical Service Sub-Committee reported that the Pharmaceutical Committee had appointed as its representatives on the Sub-Committee Messrs. W. H. Fowler, A. Higgs, and E. T. Neathercoat, and that Messrs, Fowler and Neathercoat had been appointed members of the Joint Services Sub-Committee.

West Hartlepool.—The Medical Benefit Sub-Committee reported to the Insurance Committee on March 17 that the Panel Committee had refused to recommend surcharges on practitioners in connection with the deficiency in the 1913 Drug Fund, because they were of opinion that during the first year of Medical Benefit, before experience had been gained as to the adequacy or otherwise of the Drug Fund, many proprietaries and expensive medicines had been prescribed which, it had since become evident, the Drug Fund was inadequate to provide for. Since practitioners had realised this inadequacy the prescribing of proprietary articles had ceased and the accounts kept within the limits of the Drug Fund. The Committee resolved to endorse the attitude of the Panel Committee; to forward the Pharmaccutical Committee's report on over-prescribing and the reply of the Panel Committee to the Commissioners, together with a letter stating that the Committee approves of the action of the Panel Committee for a special grant to meet the 1913 deficiency. The Sub-Committee also reported that the Panel Committee had agreed to pay 25 per cent, of the cost of cheeking prescriptions, provided the Pharmaccutical Committee pay a similar proportion.

#### SCOTLAND.

Edinburgh.—At a recent meeting of the Medical Benefit Sub-Committee the checker's report for the period December 12 to December 31, 1914, was submitted. Of 7,413 prescriptions dispensed, 4,271 were checked. The average price was 9\(^3\)d, more than 1\(^1\)d, over the previous month, but a reduction of 1\(^3\)d, compared with December 1913. The amount elaimed was 303\(^1\)5s. 3\(^1\)d., of which 303\(^1\)6s. 4\(^1\)d, was allowed. It was intimated that a letter had been received from the Commissioners in connection with the proposal to limit the number of patients on doctors' lists (C. \(^1\)d D., February 27, p. 72\(^1\). Tentative proposals had been submitted to the Commissioners for their views. The Commissioners state that they are aware that

there is a large body of opinion in favour of restricting panels, and against very large panels where it might be a matter of some difficulty for a practitioner to give sufficient attention and supervision to all the insured who had selected him. The matter, however, is one of considerable difficulty, and there are many circumstances and factors to be taken into account. As to the steps which might be taken to give effect to any proposals of the Committee, it would be understood that the Committee's powers are strictly limited. In consultation with the Panel Committee as to the basis upon which the allocation of the insured who have not chosen a doctor should be carried out, the Committee may, if the Panel Committee concur, lay down that doctors with a list in excess of any fixed number should not share in the allocation. In regard to practitioners who have lists in excess of the figure proposed as a maximum, it appears to the Commissioners that it is not within the power of the Committee to reduce the numbers on such lists, except under the transfer arrangements in the Regulations, or after an inquiry in terms of Section 45 (11) of the Regulations. It was intimated that Mr. A. F. Caddell, chemist and druggist, 162 Easter Road, desired to have his name removed from the panel list, and this was agreed to. In reply to a question as to whether tuberculin injections are obtainable under Medical Benefit, the Sub-Committee decided that the Insurance Committee could not be held responsible for the account referred to. The following report on the checking of the 1914 prescriptions was submitted:

		No. of	Average
T 10 / 71 1	$\Pr$	escriptions	Priee
January 12 to February 14		18,445	$11\frac{1}{4}d$ .
February 15 to March 14		15,991	$11\dot{d}$ .
March 15 to April 14		17,454	$11\frac{1}{3}d$ .
April 15 to May 14		15,459	$10\frac{3}{4}d$ .
May 15 to June 14		14,431	11d.
June 15 to July 11		10,606	11d.
July 12 to August 11		10,558	103d.
August 12 to September 11		8,619	10d.
September 12 to October 11		9,685	$10\frac{1}{2}d$ .
October 12 to November 11		11,108	$11\frac{1}{2}d$ .
November 12 to December 11		13.923	$8\frac{1}{2}d$ .
December 12 to December 31		7,413	$9\frac{3}{4}d$ .

The amount paid for drugs during 1914 was 6,902l. 11s. 3d., being about 500l. more than in 1913. One hundred and fifty-three thousand six hundred and ninety-two prescription-forms were dispensed, corresponding to about 1½ prescription per annum per insured person, at a cost of 1s. 2d. per person, both figures being the same as in 1913. The chief features of the year are the almost complete disappearance of "repeat" prescriptions and the increased prescribing of official and non-proprietary medicines in place of the more expensive "proprietary" articles.

Fife.-Cheques have just been received by panel chemists in payment of January accounts, less 30 per cent. There is no sign of any of the 1914 discounts being paid.

is no sign of any of the 1914 discounts being paid.

\*\*RIM irnock.\*\*—At a meeting of the Insurance Committee last week the Medical Benefit Sub-Committee reported on the Drug Fund for 1913 and 1914. In 1913, 16.866 prescriptions (value 4991.), were dispensed. The average cost per prescription in 1913 was 6.08d., and in 1914 6.73d. In 1913 the amount of the Drug Fund, less one-eighteenth carried forward, was 838l., and the bonus paid to chemists was 4091. 15s. 4d. (19s. 1\frac{1}{3}d.) per pound). In 1914 the estimated amount of the Drug Fund was 8061. 10s. 4d., and the estimated bonus p..vable to chemists 3071. 14s. 3d. (12s. 4d. per pound). In reply to a question by a member, who objected to the bonus system, the Clerk stated that the chemists do not wish for bonuses, but higher dispensing-fees; the Commissioners, however, stated that they had not sufficient data for formulating a new Drug Tariff, and it is presumed that when they have the bonus system will be dropped.

#### WALES.

Merthyr Tydfil.—At the monthly meeting of the Insurance Committee a Sub-Committee recommended that the checking and analysis of prescriptions should be carried out by the Panel and Pharmaceutical Committees. The name of Mr. T. Thomas, chemist and druggist, Treharris, was added to the list of chemists.

Newport (Mon.).—A Sub-Committee appointed to inquire into the scheme for the establishment of a Central Cheeking Bureau has recommended the Insurance Committee not to take part in the scheme. The Sub-Committee reported that the chemists are paid 90 per cent. of their accounts on presentation, and are quite satisfied with the present arrangements. Messrs. A. Gratte and J. Phillips represented the chemists on the Sub-Committee. The name of Mr. L. Davies, chemist and druggist, High Street, Newport, was added to the panel of chemists.

#### Winter Session

of Meetings of Trade Associations.

(See also "Insurance Act Dispensing.")

Birmingham.—A meeting of the Birmingham Pharmaceutical Association was held on March 18. Mr. Mann (President) was in the chair, and there were thirty-five members present. The President reported that a deputation to the medical officer of health had been courteously tion to the medical officer of health had been courteously received and had met with every possible consideration. Mr. F. J. Gibson addressed the meeting, giving an account of his work on the Pharmaceutical Council and dealing generally with the position of pharmaceutical politics. A resolution was passed thanking Mr. Gibson for his services on the Council of the Pharmaceutical Society during the past six years and polaring the Association. on the Council of the Pharmaceutical Society during the past six years, and pledging the Association to support his re-election in May. Mr. Prosser exhibited several old books of pharmaceutical interest; also scarifiers, possetcups, issue-beans, etc. Mr. Tolmio showed a new style of American window-sign. Mr. Izon demonstrated a method of cutting out paper letters for window-signs, and Mr. Kemsey-Bourno dealt with various points arising out of the new B.P. the new B.P.

Chemical Society.—A meeting was held in Burlington House, London, W., on Thursday, March 18, at 8.30 p.m., Professor W. H. Perkin in the chair. Mr. A. P. Campbell read a paper on the Velocity of Crystallisation from Aqueous Solution. The rate of crystallisation was determined by allowing two crystals of different size to grow in a allowing two crystals of different size to grow the state of constant. mined by allowing two crystals of different sizes to grow in a slightly supersaturated solution kept at a constant temperature and well agitated. By this means the errors due to slight differences in concentration of the solution were avoided. If, as is often stated, large crystals grow at the expense of smaller ones, then the thickness of the largest deposited on the two crystals will be different. But layers deposited on the two crystals will be different. But if the rate is merely a direct function of the area, then the thickness of the layer will be the same in both cases, and by making observations at certain times the ratio of the increase in weight of the two crystals will be unity. The salt employed in the determinations was alum, and the crystals were removed, dried, and weighed after intervals of fourteen hours. It was found that the factor approached 1, but was never exactly this value. The discrepancy is put down to inefficient stirring. Thus the author concludes put down to inefficient stirring. Thus the author concludes that large crystals do not grow at the expense of small ones, but grow proportionately to their area. Mr. A. E. Dunstan read a paper on the Relation between Viscosity and Fluidity, working with the aliphatic acids. He determines the viscosity increase for each CH<sub>2</sub> increment. With the first eight or nine members there is a fairly steady increase, but this additive property does not hold with acids of a high molecular weight.

with acids of a high molecular weight.

Edinburgh.—The twenty-fourth annual meeting of the Edinburgh Pharmacy Athletic Club was held at 36 York Place on March 16, Mr. J. A. Cochrane (President) in the chair. The Secretary (Mr. Paxton) and the Treasurer (Mr. W. Sniers) having joined the Colours, the reports were submitted by Messrs. Chambers and Watson, who had taken over the duties. The Treasurer's report showed a substantial credit balance. It was decided to form a Roll of Honour of members serving with the King's Forces, and it was left to the new Committee to decide what steps should be taken with the various competitions for the ensuing season. The usual donation was voted to the Pharmaceutical Benevolent Fund. The following office-bearers were elected: Hon. President, Councillor Dr. George Coull; President, Mr. J. A. Cochrane; Vice-President and Interim Hon. Secretary, Mr. W. H. Chambers, 121 Comiston Road, Edinburgh; Assistant-Secretary, Mr. W. Rae, 55 Ashley Terrace, Edinburgh: Interim Hon. Treasurer, Mr. J. Douglas Watson, 8 Millerfield Place, Edinburgh; Committee, Messrs, D. J. Davidson, G. Hutton, T. D. King, J. Knox, R. Smith, J. H. Taylor, and W. Wilson: Auditors, Messrs, R. K. Kinninmont and E. O. Rowland. Rowland.

Glasgow.—Mr. II. McMillan presided at the meeting of the Glasgow and West of Scotland Chemists' Association in the Royal Institute on March 18, when Mr. J. B. McVitae (Chairman of the Glasgow Pharmaceutical Con-

girl for cleaning up). He found that it cost (apart from above) keeping the shop open 7s. 2d. per day. Calculating two days at 7s. 2d.=14s. 4d.: two days' (boy's) wages, 2s. 6d., and the petty outlays 2s. 4½d., the direct addition to cost then being 19s. 2½d. To get this out of the Tariff price of drugs a profit of 75 per cent. on cost is necessary, and something like 80 per cent. is necessary to leave a very small working margin. The sums involved are so extremely small, and the regular expenses so stationary, that it is absurd to apply the term "percentage" at all. The fees of 19s. 1d. do not provide 1s. per hour for the work. Messrs, Laing, Guthrie, Gray, Henry (Renfrew), and Murchie also spoke. With the exception of Mr. Henry, they were all of opinion that the business does not pay. and Murchie also spoke. With the exception of Mr. Henry, they were all of opinion that the business does not pay. Mr. Murchie (Grierson & Murchie) said that his firm does not regret having retired from the panel in July last. They found that they had had to engage three extra assistants and take in some extra room, and that the profit was more than swallowed up by this expense. Also a large and remunerative business in toilet-articles and specific that here received as the result are sever extra to the control of the control was more than sanisoted by a could not serve private customers at night owing to the shop being crowded by insured persons. They find this business now rapidly returning.—The Glasgow Pharmacy Athletic Club had another highly successful whist-drive on Tuesday night, March 23. Tho prizewinners were: Ladies—I, Miss French. Gentlemen—I, Mr. H. Thompson; booby, Mr. Wm. Thomson. The tea was provided by a Committee comprising Mrs. Moffat (Convener), Mrs. McEwan, Mrs. Sutherland (Giffnock), Mrs. Seivwright, and Miss Murray. An entertainment of music, etc., was given by Miss Murray, Mr. D. G. Mackenzie, Mr. Campbell, Mr. Howat (violin solos), Mr. G. Orr (concertina solos). Mr. H. J. Moffat presided at the piano. Mr. Murchie intimated that the total amount of money raised during the winter from the whist-drives is close on 151. close on 15l.

Hull.—A meeting of the Hull Pharmacists' Association was held on March 23 at the Grosvenor Hotel, Mr. J. W. Chapman (President) in the chair, Mr. T. W. Robinsem (Secretary) reported that with 5!, voted by the Association for the Belgian Doctors' and Pharmacists' Relief Fund, the amount collected now stands at 35!, 7s. 6d. The fund is to be kept epen till March 31, Mr. Richardson complained of a practice which had spring up recently of complained of a practice which had sprung up recently of advertising drugs in the public journals without mentioning the price. In his experience, it led to a great waste of time, and he had had fifty inquiries fer one drug alone without effecting a single sale. A resolution was passed that a letter be sent to the manufacturers in question. informing them that the members of the Association would cease to handle their products unless the price is advertised along with the name of the drug. The railway company is also to be requested to overcome the delay in handling empties. It was decided to endorse the attitude taken up by the Pharmaceutical Society on the question of the regis-tration of apothecaries' assistants.

Liverpool.—At a meeting of the Chemists' Association in the Royal Institution, Liverpool, on Wednesday, March 17, Mr. J. Cleworth (Manchester) gave his lantern-lecture on the British Pharmaceutical Conference, nesday, March 17, Mr. J. Cleworth (Manchester) gave his lantern-lecture on the British Pharmaceutical Conference, which he has attended for nine years with his camera. Mr. H. Humphreys Jones presided over a large attendance, among those present being Sir Edward Evans, Mr. W. P. Evans, Dr. C. Symes, Mr. and Mrs. L. Moreton Parry, Mr. and Mrs. G. V. C. Last, Mr. and Mrs. T. E. Lloyd, Mr. and Mrs. W. H. Clubb, Mr. and Mrs. G. H. Aris, Mr. and Mrs. W. H. Clubb, Mr. and Mrs. G. H. Aris, Mr. and Mrs. W. H. Clubb, Mr. frank Wokes, Mrs. T. S. Wokes, Miss King, Miss Gwladys Williams, Miss Sybil Taylor, Mr. G. R. and Miss Tharratt, Messrs. D. H. Evans, Clubb, jun., R. Rowe, H. Straw, G. Redford, J. H. Egan, John H. Robinson (Hon. Secretary); G. F. Alder, T. H. Corlett, Messrs. Cooling, Stelfax, and Elder (Birkenhead and Wirral Association). Mr. Cleworth showed a magnificent series of slides, all being illustrative of the districts visited by the Conference, and many of them depicting leading lights in British pharmacy. The slides also included some photographs taken at the Liverpool Chemists' picnic at Clitheroe last June. All the slides were exceedingly good, and it was evident that the art of photography had found in Mr. Cleworth a perfect exponent. Not the slightest difficulty was experienced in recognising faces that had been seen before. After the lecture, the President said he felt sure that all present would feel constrained to join the Conference after having seen what a splendid time they had at these gatherings. McVitae (Chairman of the Glasgow Pharmaceutical Committee) opened a discussion on the question, Does Insurance Dispensing Pay? He gave figures from practice, showing that not only are the fees too low, but the Tariff profit on drugs too small to cover the charges in a chemist's business. The minute examination of 100 recipes showed: Tariff prices of drugs, 2l. 4s. 7d.: fees, 19s. 1d. Outlay: Corks, labels, paper, boxes, cavelopes, wax, twine, etc., 2s. 4½d. Time required, seventeen hours (i.e., two days' work for a qualified chemist with assistance of a boy or

this duty, as his likeness had appeared a good many times on the screen. He referred to the good work done by Mr. Cleworth in this direction—a work which considerably helped forward the success of the Conference. Sir Edward paid a high tribute to the excellent reproductions of the groups, and he considered the group taken at Melrose during the Edinburgh meeting as being one of the finest, considering its size, he had ever seen. Sir Edward also referred to the honour that had been bestowed upon him when asked to occupy the Presidential chair at Edinburgh in 1912. He urged all present to join the Conference, and so be able to share in the excellent time enjoyed by the members. Dr. C. Symes, as a Past-President, seconding the vote of thanks, said, although the main object of the Conference is scientific, its value is undoubtedly great from the social point of view. Mr. Harold Wyatt, supporting, said that in his opinion last year's meeting at Chester was the most successful of all that he had attended, both scientifically and socially. As a member of the Executive, he brought before the Association the claims of the Conference for their support. The vote was unanimously carried, and Mr. Cleworth, in responding, said he considered it an honour to be asked by one of the cldest Associations in the country to give his lecture.

London County Pharmaceutical Association was held at 17 Bloomsbury Square, London, W.C., on March 23, Mr. E. White in the chair, After consideration of a resolution from the South-East London Pharmacists' Association, the Committee decided to approach a firm manufacturing soap and other toilet-articles, recommending that their products be placed on the Proprietary Articles Trade Association protected list at a minimum profit of 33½ per cent. A further resolution regarding P.A.T.A. articles was received from the North London Pharmacists' Association, and it was resolved: (a) That all proprietaries on the P.A.T.A. list sho. Id be sold at face value, and that a minimum of 25 per cent. should be allowed on all P.A.T.A. articles irrespective of quantity; (b) that a recommendation should be sent to the Council of the P.A.T.A. asking that this matter be placed on their agenda for consideration at the annual meeting. A resolution from the East London Pharmacists' Association regarding the Medical Benefit Fund was duly received and adopted. Mr. John Keall was unanimously adopted as the Association's candidate for election on the Council of the Pharmaceutical Society, and a Sub-Committee was formed, consisting of Messys. Keith, Wilkinson, Fairweather, Scott, Skinner, Atkins, Brumwell, and the Secretary, with a view to promoting his candidature.

London E.:-Mr. G. W. Hatfield presided at a meeting of the East London Pharmacists' Association, held at Limehouse or March 11, when six ward officers were appointed, in accordance with the scheme of local organisation of the County Executive Committee, and it was decided that they should commence their duties by calling upon the chemists under their charge, in order to obtain their votes upon certain other points in connection with the scheme. It was unanimously agreed to recommend the County Executive "to strivo for the establishment of the principle that the chemists' accounts should constitute the first charge upon N.H.I. Medical Benefit Funds." The Chairman drew attention to cases of alleged misdemeanour on the part of certain panel chemists in the supply of medicines and appliances, and urged members to observe strict accuracy in dispensing. It was pointed out that in no instance had a charge made against a member of the East London Association been sustained.

Oxford.—The nineteenth annual meeting of the Oxford Chemists' Association was held on March 17. There were present Mr. J. Burbank (President), eleven other members, and Mr. H. C. Goodall (Hon. Secretary and Treasurer). Tho Secretary read the annual report, which shows that the membership is now twenty-nine. The financial statement shows a balance of 25/. 15s. 1d. Reference was made to the working of the National Insurance Act. Both the county borough and county have again set up a record among the Insurance Committees for promptness in paying chemists accounts, and paving them in full. The total number of N.H.I. prescriptions dispensed in the city of Oxford during 1914 was 39 570, at a cost of 1,239/. 7s. 8d. The number in the county was 31,870, at a cost of 381/. 19s. 9d. Mr. John Dolbear was thanked for granting the use of a room for the meetings of the Association and of the Pharmaceutical Committee. The report and balance-sheet were adopted. The following officers were elected: President, Mr. G. B. Rose; Secretary and Treasurer, Mr. H. C. Goodall; Vice-Presidents, Mr. H. O. Oddy and Mr. J. Burbank; Committee, Messrs. Bellamy, Clayton, Delbear,

Neave, and Ransom. A vote of thanks to the retiring Prosident was carried. The Sceretary was asked to accept the sum of ten guineas as an honorarium for services rendered to the Association during the past year. A donation of two guineas was sent to the Benevolent Fund, and a similar amount to the Belgian Doctors' and Pharmacists' Relief Fund.

Southampton.—The third annual meeting of the Southampton Pharmacists' Association was held at the Bungalow Café on March 22, Mr. W. W. Martin (Vice-President) in the chair. About twenty-two members were present. A letter was read from the President (Mr. W. Bates), who was absent owing to ill-health, thanking the members for their support during his three years of office, and stating that he could not again accept the office of President. It was resolved to write to Mr. Bates expressing that he could not again accept the office of President. It was resolved to write to Mr. Bates expressing thanking him for the great work he had done for the Association. The Hon. Secretary (Mr. F. B. Wride) presented the report of the retiring Committee on the work of the past year (C. & D., February 27, p. 74). It was reported that Mr. Edmund Chipperfield, son of the late Mr. Robert Chipperfield, J.P., had sent a donation of 101. to the Association towards the formation of a library. Mr. H. Jewell had consented to act as librarian, and it is intended to frame rules for lending. Several books have already been ordered. A report on the work of the Pharmaceutical Committee was also presented. The Hon. Treasurer (Mr. H. Ferryman) submitted the balance-sheet, which showed a balance on the credit side. The reports were adopted. The following officers were elected for the coming year: President, Mr. W. W. Martin; Vice-President, Mr. H. Ferryman: Treasurer, Mr. II. Jewell: Members' Auditor, Mr. Weir; General Committee, Messrs. W. Bates, W. R. Jones, W. Riddle, W. A. Clark, G. E. Gibson, A. L. Hodges, R. H. Fowler, H. J. Hussey, and W. W. Atkinson. After considerable discussion, it was decided that unqualified assistants and apprentices who have registered should be eligible for membership as associates on payment of a subscription of 2s. 6d. Five new members enjoyed the hospitality of the newly elected President. Songs, recitations, etc. were given by members; Mr. W. W. Atkinson presided at the piano.

Atkinson presided at the piano.

Thames Valley.— A meeting of the Thames Valley Pharmacists' Association was held on March 24 at Kingston-on-Thames. The beautiful spring day somewhat diminished the attendance, but notwithstanding there were several members present from the Wimbledon Association. The reading of the paper by the President of the Chemists' Defence Association was postponed. There was, however, an informal discussion on the Proprietary Articles Trade Association and the Chemists' Defence Association, which resulted in the adoption of a resolution: That the Council of the P.A.T.A. should take further steps to increase the membership of the retail section, and that some of the funds appearing in the balance-sheet should be utilised for that purpose. Insurance business relative to Middlesex was dealt with by Mr. Clement, and Surrey Insurance matters were dealt with by Mr. Higgs.

## Netherlands Notes.

(From the "C. & D." Correspondent.)

**Dutch-Japanese Society.**—A Dutch-Japanese Society has been founded for the purpose of promoting commercial relations between Japan and Holland, especially the Dutch Colonies.

Vesalius on Cinchona Decoction.—The "Nederland Tijdschrift voor Geneeskunde" has just published as the third part of a series of "Opuscula selecta Necrlandicorum de arte medica," a Dutch translation of Vesalius' "Epistola rationem modumque propinandi radius chynæ decocti." The "letter" is a book of nearly 300 pages, and was addressed originally, in 1546, to Roelants, a Mechlin physician.

Pharmacists in the Army.—Those pharmacists who have been mobilised are complaining that no use is made of their pharmaceutical knowledge, although pharmacists are badly needed in the military dispensaries. Men nurses and other persons with no pharmacy training are employed in these dispensaries, and yet there are pharmacists available who at present scrub floors or prepare vegetables for the cook.

St. Lucia Honey.—The year 1914 was a bad one for St. Lucia honey, the exportation being valued at only 496l., or 208l. less than in the previous year.

#### Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

In regard to quotations for synthetic chemicals and other products obtained hitherto chiefly from Germany and other Continental countries now engaged in war, it should be noted that some of these are strictly nominal, and are not noted that some of these are strictly nominal, and are not general, but are prices of limited supplies quoted by individual holders and second-hand dealers. Most offers at present made by circular are without engagement," and subject to the articles being unsold. In many instances higher prices than those quoted in this Report, for various reasons, are being paid.

#### 42 Cannon Street, E.C., March 23, 6.30 p.m.

THERE is evidence of a slacker tone in the drug and chemical markets, with, however, the balk of pricealterations still favouring sellers. As regards fine chemicals, the present high range of values and scarcity has restricted business to the filling of orders only, and apart from the locking up of the capital involved at the famine rates, there is little inducement to stock. The scarcity in acetyl-salicylic acid, cocaine, and atropine has become more pronounced this week. Certain difficulties have arisen at the Customs in regard to the importation of German chemicals viâ the United States, which add to the difficulties of obtaining supplies from this source. Formaldehyde, phenolphthalein, chloral hydrate, and vanillin are among articles held for higher prices. Antimony is strong and dearer. Ammonia sulphate, copper sulphate, caustic soda, and nitrate of soda are firmer. Among the cheaver articles are opium, cod-liver oil, bergamot, lemon, and orange oils, and turpentine. The principal changes have been as under:

Higher	Firmer	Easier	Lower
Acetyl-sal, acid Antimony Atropine Cocaine Linseed oil Pepper . black) Vanillin	Ammonia sulphate Camphor (Jap. ref.) Chloral hydrate Copper sulphate Fo maldehyde Line oil Phenolphthalein R. pe oil Soda, caustie Soda nitrate Tattarie acid	Bergamot oil Lemon oil Milk sugar Opium Orange oil (Sieilian)	Coeonut oil (Ceylon) Cod-liver oil Turpentine

The Continental Drug and Chemical Letter will be found in our Coloured Supplement.

#### Cablegram s

Bergen, March 24.—The cod-fishing has proved disappointing this week. The market for finest Lofoten medicinal oil is, however, easier.

New York, March 24.—Business in drugs is fair. Cartagena ipecacuanha is lower at \$1.80. Balsam tolu is firmer at 39c. Buckthorn-bark has been reduced to 15½c., and Curação aloes is easier at 12c. Mexican sarsaparilla is quoted 11½c. per lb., being cheaper. Opium, menthol, and peppermint oils are unchanged. Canada fir bulsam is lower at \$6.35 per gal.

#### London Markets.

ACETANILIDE.—There is a prospect of further supplies coming forward from neutral countries; value remains unchanged at 3s. 6d. per lb.

ACETONE now commands 120%, to 125%, per ton for spot delivery, only small quantities being available.

ACETYL-SALICYLIC ACID. The demand still remains very active, but the high prices have led to buyers ordering smaller quantities at more frequent intervals; business has been done up to 15s., but higher prices are asked.

AGAR-AGAR.—Sales of February-March shipment have been made at 1s, 4½d. c.i.f. for No. 2 strips.

Mamonia Sulphate is firmer, London, 25-per-cent, ammonia, offering at 12t. 17s. 6d. per ton net naked at works: Hull, 24-per-cent., is 13t. 12s. 6d.; Liverpool, 13t. 15s.; and Leith, 14t. 5s., less 3½ per cent., in bags f o.b.

Daring February 4,195 tons were exported from Leith, compared with 1,959 tons in the corresponding month of

1914. A favourable war-time comparison.

Anise Oil (Star) is steady, with sales of "Red Ship brand for May-June shipment at 3s. 6d. per lb. c.i.f.; spot price is 3s. 11d. to 4s. Large arrivals have taken place.

Aniseed is unchanged, at 35s. to 40s. per ewt. for fair to good Spanish.

Antimony is a strong and dearer market, Chinese crude having sold up to 471. 10s. per ton on spot.

Asafetida. Business has been done at from 85s. to 90s. per cwt. for fair medium and part loose gum.

Balsam Peru.—Quite a retail sale has been made at 13s.

Balsam Tolu.-Sellers quote fair hard at 2s. 3d. per lb. which has been paid.

BERGAMOT OIL,—Prices vary from 9s. 9d. to 10s 6d. per lb. c.i.f. as to brand, the tendency being easier.

Browndes.—It is very difficult to get any supplies from the United States, and holders here are getting full prices. English makers quote potassium and ammenium at 3s. 6d. and sodium at 3s.

Camphor (Refined) rather firmer, with sales of Japanese  $2\frac{1}{2}$ -lb. slabs at 1s.  $4\frac{1}{2}d$ . c.i.f. for March-April shipment.

CANARY-SEED is slow of sale, at 95s, per quarter for ordinary quality.

CANTHARIDES.—Chinese have been sold on the spot at 6s. 3d. per lb. Russian are practically unobtainable.

CARAWAY-SEED is firm, at 35s. per cwt. for fair Dutch on

Cassia Oil is steady, with business in 80 to 85 per cent.c.a. at 2s.  $7\frac{1}{2}d$ . per lb. c.i.f. for March-May steamer ship-

Castor Oil.—There is a good inquiry, but there is great difficulty in finding sellers. Hull make for prompt to April delivery is quoted in barrels at 44l, 10s, per ton for pharmiceutical quality and 42l, for first-pressing; May-August delivery is 36l, 10s, for medicinal and 34l, for first-pressing. f.o.b. Hull, usual terms; oil in tins and cases is 3*l*. per top over the respective price in barrels.

over the respective price in barrels.

CHILLIES.—In Liverpool 240 bags Sierra Leone have been sold at 85s. 6d. to 87s. per cwt. ex quay.

CHLORAL HYDRATE is firmer at 6s. per lb. net, duty paid.

CINCHONA.—The declarations of manufacturing bark to be tendered for at Amsterdam in March are 11,214 packages, weighing 953,283 kilos., with a quinine-content of 57,719 kilos. The quinine percentage is 6.11. On March 31 407 bales and 251 cases pharmaceutical bark will be offered by auction, the total weight being 37,223 kilos., with a quinine-content of 1,080 kilos.; of the foregoing, 34.137 kilos, are Succirulara and 3.086 kilos. Robusta, of 34.137 kilos, are Succirubra and 3,086 kilos. Robusta, of which 32.600 kilos, are root-bark.

CIRRIC ACID is steady at 2s. 6d. per lb. CLOVE OIL.—With more inquiry recently, prices are firmer. The list-price of English distilled is 4s. 6d. per lb., with the

prospect of going dearer.

Comine.—The scarcity is becoming acute, as no further supplies are coming to hand from previous sources. Business has been done in hydrochloride at from 12s, 6d, to

14s., but 15s, per oz. was asked on Wednesday.

Cod-Liver Oil.—The position in Norway indicates a somewhat easier feeling from the extreme top price of last week, which was more or less nominal. Several agents remain without quotations; others name from 180s. to 190s, for finest Lofoten oil, without engagement. On the spot finest new Lofoten oil is obtainable at 190s, and 1914 oil at 182:. 6d. to 185s.

According to cabled statistics received from Norway, the official statistics up to March 20 are as follows:

•		Livers	Yield of
Catch of		for raw	e l.o.
ભ તે		oils (hect.)	(hect.)
Lofoten, 1915 9 100.000	•••	f00	8.070
do. 1914 7.910 000		2.141	6.863
Whole country, 1915 30.600 000		5 038	28 044
do. 1914 35,200,000		5,270	28 204

Our Bergen correspondent writes on March 15 that the last few days have brought an improvement in the fishing at several places, but on the whole the results are only middling. To-day's report gives the following figures:

	1912	1913	1914	1915
Catch of cod (millions)	35 9	13.8	26.9	23.7
Yield of c.l.o. (hect.)	28,900	10,400	22,400	23,000
Yield of liver for raw oils				
(heet.)	4,700	3,200	4,400	4,100

The rise on the market has been maintained, and the quotation for prime non-congealing oil is 180s, per barrel c.i.f. The total exports from Norway to the end of February amounted to 23.700 barrels, against 6,200 barrels at the corresponding date of 1914.

Coca-Leaves.—At the auetion to be held at Amsterdam on March 31 2,427 packages, weighing 132,049 kilos., Java leaves will be offered, the total alkaloidal-content being 2,160 kilos. The average percentage is 1.64.

COPPER SULPHATE is firmer at 281. 10s. per ton for the usual Liverpool brands.

CORIANDER-SEED is dull, at 12s. 6d. per cwt. for good Moroeco.

CREAM OF TARTAR is firm and unaltered at 145s, per ewt. for 98-per-cent. powder.

Cubebs.—Genuine, slightly stalky, are available at 81. 10s.

CUMIN-SEED is firm, further sales having been made for good Morocco at 80s. per cwt.

Fennel-seed is offering at 22s. 6d. per cwt.

FENUGREEK-SEED is quiet, at 10s. per ewt. for Moroceo.

FORMALDEHYDE.—It is becoming difficult to obtain further supplies from the United States for forward delivery, and it would not be surprising if prices were advanced.

IPECACUANHA.—The Avon has brought 88 bales from Monte Video to Liverpool.  $\Lambda$  very fair business has been done at up to 15s, per lb, for Matto Grosso.

JALAP is tending firmer, with 17.9-per-cent. test offering at 1s. 3d. and 13.5-per-cent. at 1s. 1d.

JUNIPER-BERRY OIL of foreign distillation is offered at 8s.

KOLA.—With small stocks, holders ask 4d. to 5d. for good West Indian.

LEMON OIL continues depressed, with a further easing-off in values, which are from 3s. 8d. to 4s. per lb. c.i.f. Very fair arrivals are taking place, chiefly in fulfilment of

LINSEED is firm, at 57s. 6d. to 62s. per quarter for good to fine quality.

MERCURY is quoted at from 121. 5s. to 121. 7s. 6d. per bottle. bottle. New York reports a heavy export demand. Following a series of advances in mercurials, which culminated in an advance of 2c. per lb. for soft mercurials minated in an advance of 2c, per 1b, for soft mercurials and 9c, per lb, for hard mercurials, the drug-trade is showing interest in the situation. A leading factor in the quicksilver-trade said: "Stocks in New York are just about exhausted at present, although a few small lots are lying around at faney prices. We are not quoting any prices, as we have no stock. Production is going on as usual in California, and there is the usual amount en route. The unusual demand which has come from powder-makers is a strain on the market, as mercury is used extensively in the caram on the market, as mercury is used extensively in the manufacture of fulminate, which is used in percussion-caps. Under normal conditions, powder-makers' taking would not average more than about 2,000 flasks per year, but with millions of shots being fired every day in Europe the extra demand can easily be imagined." While there are few offerings of large lots, smaller dealers are asking as high as \$75 per flask of 75 lb., or \$1 per lb. Crude quicksilver is also being hought by foreign interests, which are making also being bought by foreign interests, which are making fulminate abroad.

Milk-sugar.—Demand is much quieter, with best powder offering at from 701. to 721. 10s. per ton.

MUSTARD-SEED continues in demand, with sales of English yellow at 41s. 6d. to 42s. 6d. per cwt. for ordinary to fair.

yellow at 41s. 6d. to 42s. 6d. per cwt. for ordinary to fair.

Olds (Fixed).—Linsced is active and dearer at 35s. in pipes on spot and 36s. 6d. in barrels. Cottonseed is firm at 28s. 3d. for crude in pipes on spot, 30s. for pale refined in pipes, and 33s. to 34s. 9d. for sweet refined in barrels. Rape oil is 1s. better at 39s. for ordinary brown crude, naked, and 41s. for English refined in barrels. Petrolcum is firm at 8½d. for ordinary American and 9½d. for waterwhite, no Russian being available. Coconut is cheaper for Ceylon, which is offering at 50s. in hogsheads on spot and 48s. in pipes. Cochin on spot is 56s., and London-pressed 42s. 6d. for March-April delivery. Lagos Palm oil is 36s. 9d. spot. 36s. 9d. spot.

OPIUM remains quiet, with Turkey druggists' quality offering on spot at 24s. to 25s. as to test, and for Persian from 17s. to 22s. per lb. is quoted, according to test. The Kohistan, from Persian Gulf ports, has brought 449 cases to Bristol.

ORANGE OIL is rather cheaper at from 5s. 6d. to 5s. 9d. per lb. c.i.f. for sweet and 5s. 7d. c.i.f. for bitter.

Orange-Peel.—So far this season little of the new crop has been sold, but there is no pressure to sell, prices varying at from 1s. 3d. to 1s. 9d. as to colour.

PEPPERMINT CIL.—American is firmer, with sales of good PEPPERMINT GIL.—American is firmer, with saies of good brands of Wayne County at 7s. per lb., and to come forward 7s. 3d. is asked. II.G.H. is scarce on spot at 12s. 6d., and possibly a little more if urgently wanted. Japanese dementholised Mint oil is quoted 3s. 3d. to 3s. 4d. spot, and 2s. 11d. e.i.f. for March-April shipment.

PHENACETIN has been selling at from 14s. 6d. to 15s. per lb., but a higher price has actually been paid by dealers in New York.

PHENAZONE.—Limited quantities can still be bought at 15s. per lb.

PHENOLPHTHALEIN.—Rather higher rates are quoted from the U.S.A., owing to the searcity of raw material.

PILOCARPINE.—A fair quantity of the hydrochloride and nitrate has been sold recently at from 10s. to 11s. per oz., but 12s. is now asked.

QUININE.—Business is confined to consumers' requirements, which can be filled at from 1s.  $1\frac{3}{4}d$ . to 1s. 2d. per oz. for the usual brands of Continental sulphate.

Salicylic Acid of European make is quoted at from 7s. 6d. to 8s. per lb.

SENEGA.—On the spot business has been done up to 2s. 6d.

SENEGA.—On the spot business has been done up to 2s. 6d. per lb. net, with only small stocks on hand; to arrive, 2s. 2d. e.i.f. is quoted.

SENNA.—The embargo on exports from India having been removed, there is a prospect of relief from the present stringency, but probably not for six weeks or two months under prevailing conditions. Last week's offerings of Tinnevelly leaf were sold privately at the limits of 9d. to 10d. for fair boldish leaf. T.V. pods are quoted at 3d. for dark, and genuine Alexandrian 1s. 10d. to 2s., as to quality and seller.

Shellac remains quiet, at from 61s. to 62s, for usual standard TN Orange quality and 62s. 6d. for AC Garnet on spot. For delivery the sales include March at 61s.

Soda Bicarbonate is quoted at 5l. 10s. per ton in kegs f.o.b. Liverpool for export, and 5l. f.o.r. at works. London prices are 5l. 8s. for casks and 5l. 13s. for kegs.

SODA, CAUSTIC, is firmer, the spot price being 11*l*. 10s. for 70 to 72 per cent., and 60 to 62 per cent. 1*l*. less.

Soda Nitrate is firmer at 12/. for ordinary and 12/. 10s. for refined on spot; Liverpool quotes 11/. 10s. and 11/. 15s. per ton respectively; a good business has been done.

Sodium Salicylate of good European make is quoted at

from 11s, to 12s, per lb.

from 11s, to 12s. per lb.

SPICES.—Cloves are unaltered at  $6\frac{1}{2}d$ . per lb. spot for fair Zanzibar, and for April-June shipment sellers quote  $5\frac{1}{2}d$ . c.i.f. d.w. Pcpper quiet at  $6\frac{1}{2}d$ . spot for fair black Singapore, and 6d. for both Lampong and Tellicherry; sellers of White Singapore quote 10d. for fair, Penang  $9\frac{1}{2}d$ ., and Muntok  $10\frac{3}{2}d$ . to  $10\frac{1}{2}d$ . Jamaica Ginger is quoted at from 55s. to 60s. for good, and 45s. to 50s. for common to medium; the value of Cochin is 26s. to 27s.; new erop 28s., Calicut 27s. St. Vincent Arrowroot of fair manufacturing quality is quoted  $2\frac{1}{2}d$ . to  $2\frac{1}{2}d$ ., and fine  $4\frac{1}{2}d$ . per lb. Cassia lignea is quoted at 46s. 6d. for selected on spot. Pimento has sellers at  $2\frac{1}{2}d$ . per lb. spot and 19s. per cwt. e.i.f. Fair average Ceylon Cinnamon is quoted  $10\frac{1}{2}d$ . for April-May shipment, firsts  $11\frac{1}{4}d$ ., seconds  $10\frac{1}{6}d$ ., thirds  $9\frac{3}{4}d$ ., and chips  $2\frac{3}{3}d$ . c.i.f. 23d. c.i.f.

TARTARIC ACID is very firm at 1s. 6d., and likely to go dearer.

VANILIN of guaranteed pure quality from elove oil is quoted at 26s. per lb. A few lots were sold at slightly less money, but only limited quantities are offered.

WAY, BEES'.-Small sales of Sierra Leone have been made

in Liverpool at 71. per ewt.

Wax, Japanese.—The spot price remains at 65s., arrival values being from 58s. 6d. to 59s. e.i.f.

#### Heavy Chemicals.

The course of trade in heavy chemicals during the past month has been satisfactory on the whole. Export trading is still seriously hanpered by difficulty of obtaining shipping facilities, and on home account there is great difficulty in securing transport. Still, there is a fair business doing in heavy chemicals, and prices are well maintained. There has been an upward movement in sulphate of copper,

which is now quoted 281. 5s. to 281. 10s. per ton, delivered Manchester, with reluctant sellers. The present position of copper is eausing considerable uncertainty in commercial copper is eausing considerable uncertainty in commercial centres here, and to-day there was an advance of 2l. to 3l. per ton in the raw material. The difficulty seems to be getting it into this country, owing to present conditions. Nitrate of soda is the turn dearer, and chlorate of potash is firm. Cream of tartar and acids generally unchanged. Carbolic acid, crude and crystals, remains steady; benzols unchanged. Sulphate of aumonia is quiet, at 13l. 7s. 6d. to 13l. 10s. f.o.r. Manchester.

Arrivals of Chemicals and Drugs,

During the period March 11 to 17, inclusive, the following produce has arrived at the English ports enumerated below. Goods in transit are not included. The figures denote packages where not specifically described:

To London

Acctic acid (Rotterdam) blns.
96, pkgs. 52, (Philadelphia)
brls. 135

Acctono (Philadelphia) dms.

1.030 Agar-agar (Kobe) bls. 111 Albumen (Shanghai) cs. 127 Alcohol, wood (Philadelphia) dms. 737

dms. 737 Aloes (Mossel Bay) 25 Ammon. phosph. (Boston) brls.

Aniline dyes, colours, etc. (Rotterdam) pkgs. 40 Anise (Marseilles) 38, (Alicante)

Aniso oil, star (Hong-Kong) es. 285

Apricot-kernels (Hankow) 70 Argol (Leghorn) bgs. 249, (Messina) cks. 78, (Lisbon) 237 Arrowroot (Trinidad) brls. 1,296 Arsenie (Bastia) brls. 20 Barium binoxide (Treport) es.

Benzoin (Singapore) es. 52 Borie acid (Leghorn) brls, 50, es. 100

Bucha (Cape Town) pkgs. 55 Camphor (Kobe) es. 274 Camphor, crude (Tamsui) es.

Canary-seed (Malaga) 150, (Marseilles) bgs. 550 Cautharides (Hong-Kong) es. 40 Caraway-seed (Holland) bgs. 225 Cardamoms (Colombo) 144,

Cardamons (Colombo) 1 (Bombay) 68 Casein (La Pallice) bgs. 841 Cashew-nuts (Bombay) cs. 191 Cassia lignea (Hong-Kong) 200 Cassia oil (Hong-Kong) es. 65 Castor oil (Marseilles) es. 60,

eks. 16 Chemical products (Treport) es. Chemical products (Treport) cs. 31, (Rotterdam) cks. 7
Chillies (Z'uzibar 15, (Bombay) 13, (Marseilles) 60
Ciuchona (Lisbon) bls. 64
Cinnamon and chips (Colombo) 1051

Cineamon oil (Colombo) 3 Citrate of lime (Syracuse) eks. 135, (Trindad) 2 Citric acid (Marscilles) eks. 20 Citronella oil (Singapore) dma.

Cloves (Penang) 12, (Zanzibar) bls. 2,042; clove-stems 400

Cochineal (Colon) 16 Coconic (Colon) 16
Coconic oil (Colombo) pps.
180, pns. 14, hhds. 22, (Singnpore) cs. 150, pns. 35, pps. 7,
(Amsterdam) cs. 100, (Marscilles) cks. 303 (Amsterdam) seilles) cks. 303 Cottonseed (Alexandria) tons

oil (Alexandria) Cottonseed

brls. 1.300, (Philadelphia) brls. 3.000 Coriander-seed (Calcutta) bgs.

Coriander-seed (Calcutta) bgs. 40, (Bordeaux) 5,417 Cream of tartar (Marseilles) eks. 466, (Genoa) eks. 20 Cubebs (Singapore) bgs. 25 Dextrin (Rotterdam) bgs. 179 Dragon's-blood (Singapore) es.

undescribed (Philadelphia) bxs. 6, (Treport) cs. 13, (New York) pkos. 162, (Bou-logne) cs. 39, (Boston) cs. 54 "Drugs and perfumery" (Bou-logne) cs. 12 "Essences, perfumery, etc."
(Marseilles) pkgs. 40
Essential oils (Palermo) es. 17,
(Messina) es. 187, pkgs. 188,
(Syraeuse) es. 20, (Palermo)
es. 47, (Hong-Kong) es. 30,
(Marseilles) pkgs. 30
Fennel-seed (Marseilles) 45
Fig syrup (Philadelphia) es.
1,789
Galls (Showal

Galls (Shanghai) es. 200 Gelatine (Genoa) es. 35 Ginger (Hong-Kong) es. 800, eks. 50 Glucose (New York) brls. 1,200

Glycerin (Neweastle, N.S.W.) dms. 45 Gum aeacia (Bombay) bgs. 473

Gum chiele (Philadelphia) 25 Gum copal (Singapore) bkts. 637, es. 100, bgs. 37, (Hong-Kong) 96

Gum damar (Singapore) es. 150 Gum kauri (Auckland, N.Z.) pkgs. 138

Gnms, undescribed (Rotterdam) bgs. 286

Herbs (Nantes) bls. 10 Honey (St. Nazaire) eks. 44, (New York) brls. 62, cs. 50, (Brisbane) cs. 50

(Mrsoune) cs. 30 Illipi-nuts (Singapore) bgs. 641 Indigo (Calentta) chts. 249, (New York) sks. 12, (Mar-seilles) es. 11 Lead acetate (New York) cks. 25

25 Lemon-juice (Messina) pps. 69 Lime-juice (Trinidad) cks. 19, (New York) pps. 189 Lime oil (Trinidad) cs. 13 Linseed (Shanghai) bgs. 1,114,

Linseed (Shanghai) bgs. 1,114, (Calcutta) bgs. 10,906 Liquorice-juice (Marseilles) cs. 8, (Naples) cs. 79 Lithopone (Rotterdam) cks. 280 Loofahs (Kobe) cs. 112 Mangrove-bark (Port Amelia)

Mangrove-bark (Port Amelia) bgs. 811 Menthol (Yokohama) es. 70, (Kobe) es. 90 Menthol and mint oil (Japan) es. 160

Mercury (Leghorn) btls. 380

Milk-sugar (Leghorn) 15 Milk-sugar (Leghorn) 15 Mineral-waters (Treport) es. 340, (Marseilles) 2,582 Mint oil (Kobe) es. 210 Nut oil (Marseilles) cks. 56, (Rotterdam) byle. 1 427 (Rotterdam) brls. 1,477 Nutmegs (Singapore) cs, 315 Nux vomica (Calcutta) pkgs, 40, (Bombay) 297

40, (Bombay) 297 Olibanum (Bombay) es, 60 Olive oil (Seville) brls. 180, es. 11, (Bari) cks. 48, brls. 7, (Leghorn) ½ chts. 25, (Mar-seilles) es, 20, cks. 60, (Genoa) brls. 30, cs. 20, (Leghorn) brls. 30, cs. 20, (Leghorn) pps. 91, cs. 6, ½ eks. 54, ½ eks.

Opium (Piræus) es. 73. (Bombay) es. 51, (Marseilles) es.

Orange-peel (Marseilles) bls. 10 Orris (Leghorn) bls. 13
Papain (Colombo) pkgs. 25
Peppermint oil (Japan) (see

Mint oil and Menthol)
Perfumery (Boulogne) cs. 10
Petroleum emulsion (Boston)
bxs. 1,3% Pimento (New York) bgs. 935 Potash iodide (Kobe) cs. 25 otash permang. (Rotterdam) dms. 13 Potash

Potash prussiate (Philadelphia)

Potash prussiate (Philadelphia) brls. 20, (Rouen) eks. 8, (New York) eks. 7 Potash salts, various (Gothen-burg) es. 10, dms. 12 Quinine (Rotterdam) es. 10 Rape-seed oil (Kobe) es. 2,000 Rhubarb (Philadelphia) es. 10, (Shanghai) es. 48 Roots, barks, herbs, etc. (Mar-seilles) bls. 157 Saccharin (Marseilles) es. 2.

scilles) bis. 157
Saccharin (Marscilles) es. 2,
(Treport) es. 10
Salicylic acid (Philadelphia)
bris. 19
Salol (Philadelphia) es. 5
Salicylic (Cylorita) br. 5

Saltpetre (Calcutta) bgs. 2,945, (New York) brls. 142

(New York) brls, 142 Sarsaparilla (Philadelphia) 10 Seedlae (Calcutta) 388 Senega (Philadelphia) bls, 10 Senna (Marseilles) es, 10 Shellae (Calcutta) es, 2,788, bgs, 267, garnet lae es, 251, button lae 194 Sodium benzoate (Philadelphia)

Sodium phosphate (Rotter(\u00e4m))
4, (St. Nazaire) cks. 15, bgs.
50

Sodium salicylate (Philadel-

Sodium salicylate (Philadelphia) es, 28
Soyn-bean oil (Kobe) es, 1,997, (Darien) dms. 278, brls. 500
Soya-beans (Darien) bgs. 25,425
Sulphur (Girenti) tons 1,400
Tamarinds (Trinidad) brls. 56
Tartur (Messina) eks. 15, (Marseilles) 118, (Naples) eks. 94, (Alicante) bgs. 471, (Barcelon) brls. 124
Tartarie acid (Bari) brls. 128

Tartaric acid (Bari) brls. 128, (Genoa) es. 4, (Leghorn) cks.

Turmerie (Calcutta) 20, (Bombay) 174

bay) 174
Valonia (Pireus) bgs. 4,743
Vanilla (Trinidad) cs. 4
Wax, bees' (Beira) cs. 4, blks.
29, (Calcutta) cs. 25, (Marriselles) pkgs. 204, (Bombay) 8,
(Leghorn) 12, (Lisbon) 176,
(Boston) cs. 27
Wax, veg. (Kobe) cs. 675
Zinc oxide (Rotterdam) cks.
370, (New York) 1,000

To Liverpool,

Ammonia nitrate (Skien) eks. 410

Anise oil, star (Hong-Kong) es. Antimony (Nantes) cks. 60

Argol (Oporto) eks. 17, (Bordeaux) eks. 38
Arsenic (Bordeaux) dms. 192
Borate lime (Mollendo) lgs.
1,436, (Antofngasta) bgs.
3,498, (Valparaiso) bgs. 1,060

3,498, (Valparaiso) bgs. 1,060 Borax (Antofagasta) bgs. 4608 Castor oil (Calcutta) cs. 175 Chemical products (Genoa) cks. 27, (Marseilles) 208, (New York) drms. 228, cks. 8, cs. 15. brls. 375 Chillies (Bombay) 10 Coconut oil (Marseilles) pkgs. 1.113

1.113

1,113
Cream of tartar (Oporto) cks.
12, (Bordeaux) cks. 75
Drugs, medicines, ctc. (New York) pkgs. 144, cs. 70
Essential oils (New York) cs. 10
Ginger (W.C. Africa) bgs. 581
Gum copal (W.C. Africa) pkgs.
251

ums, undescribed (W.C. Africa) brls. 51, (Lisbon) Gums.

Henbane (Alexandria) bgs. 8 Henbane (Alexandria) bgs. 8 Honey (Chile) brls. 266 Illipi-nuts (Singanore) 741 Illipi oil (Marseilles) es. 280 Iodine (Las Palmas) kgs. 46 Lac, button (Calcutta) 48 Linseed (Buenos Ayres) bg. 5130 5.130

5.30
Lithopone (Rotterdam) cks. 80
Magnesife, calcined (Lemni)
bos. 6,000
Medicines (New York) cs. 252

Mineral-waters (Marseilles) nkgs. 2,184, (Bordeaux) es.

Mineral white (Bordeaux) bgs.

Niger-seed (Bombay) 200 Olive oil (Lisbon) brls. 30, (Mar-seilles) es. 15, (Bordeaux) es. 200

Palm oil (W.C. Africa) eks. Palm-kernels (W.C. Africa) bgs.

93.226 Peptone (New York) pkgs, 34 Petrolatum (Baltimore) brls. 195 Potash caustic (New York) dms.

Potash eyanide (New York) es.

55
Potash muriate (Genoa) cks. 15
Potash sulphate (Genoa) cks. 88
Roots, cte. (Singapore) bls. 148,
(Murseilles) bls. 206
Saltpetre (New York) 288,
(Calcutta) 1,000

Sch-sch (New York) cs. 83 Soy (Hong-Kong) 100 Soya-beans (Vladivostok) bgs. 61.371

51,571 Turmeric (Bombay) 10 Turpentine (Savannah) brls. 1,380

Wax, bees' (W.C. Africa) pkgs. 535, (Penco) 16 (Lisbon) pkgs.

Wax, earnauba (Pernambuco) bls. 297 Zine oxide (New York) brls. 1,400, (Rotterdam) cks. 75

To Manchester.

Acctic acid (New York) brls.

Ammonia (Philadelphia) cyl. 100 m earbide (Norway) dms. 1.000

1,000 Carbon black (New York) brls, 563, (Philadelphia) es. 350 Dextrin (Rotterdam) 100 (New York) 440

Drugs, undescribed (New York) es. 36 Farina (Rotterdam) 100

Formaldehyde (New York) brls.

Glueose (New York) 10 Glycerin, erude N.S.W.) dms. 13 (Sydney Liquorice-paste (New York)

pkgs. 300 Oxalic acid (New York) cks. 12

Oxane acid (New York) cks, 12 Peptone (New York) pkgs, 10 Potash prussiate (Rotterdam) 7, (Rouen) cks, 31 Saltnefre (New York) brls, 225, (Philadelphia) brls, 165 Sodium acetate (Rouen) cks, 12 Sodium acetate (Rouen) cks, 12 Sodium prussiate (Philadel-phia) cks. 54

phia) cks. 54
Tartar emetic (Ronen) cks. 4
Wax, bees' (New York) es. 10
Zine oxide (New York) 300
To Hull.—Calcium exanimido
(Bergen) bos. 300; chemical
products (Dunkirk) cks. 45.
(New York) brls. 55; coccabutter (Amsterdam) bos. 311;
acad liver oil (Aalesund) brls. butter (Amsterdam) bes, 311; ced-liver oil (Aalesund) brls. 120; copra (Cebu, etc.) tons 1,750; cottonseed (Alexandria) tons 1 895; formic acid (Rotterdam) blns. 126; ground nuts (Arachis) (Rusfisque) tons 995; linseed (Sar Nicolas) bgs. 27,272; magnesite (Drammen) bcs. 255. linsced (Sa) 16,455, (Rosario) bgs, 27,272; magne-site (Drammen) bgs, 255; milk-sugar (Gothenburg) cs, 10; olive oil (Spain) brls, 2,001, cs, 20; peppermint oil (New York) 5; notash caus-tie (New York) dms, 6; potash carbonate (Copen-hagen) cks, 72; notash formpotash carbonate (Copen-hagen) cks. 72: potash ferrohagen) eks. 72: potash ferro-cvanide (Conenhagen) 10. To Bristol.—Cottonseed (Alexan-dria) tons 2.615; linseed (San Nicolas) bgs. 2.200; sora-beans (Darien) bgs. 20.045. o Harvich.— Cocoa-butter (Rotterdam) pkgs. 120. To Folkestone.— Drugs, un-desenthed (Diagne) pkgg. 59.

(Rotterdam) pkgs. 170, 170
Folkestone, — Drugs, undescribed (Diepne) pkgs. 59;
essential oils (Diepne) pkgs.
25; perfumerv (Boulogne) 4,
(Calais) 4. To Southampton.
—Chemical products (Havre)
pkgs. 31, (Diepne) pkgs. 282;
drugs, undescribed (Diepne)
cs. 6: gelatine (Honfleur) cs. es. 6; gelatine (Honfleur) es. 26.



#### Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

#### Patent Medicines and Diminishing Profits.

Patent Medicines and Diminishing Profits.

Sir,—I notice in your correspondence columns this week a letter signed "Common Sense," and, while I am quite in sympathy with this individual, I certainly take exception to his methods. The "patent" department from a moneymaking point of view is hopeless under present conditions, but as an advertising medium it is far and away in front of anything else we have. The chemist is judged by his charges for these goods, and a brisk demand for patents invariably means a good sate for more profitable lines, I dare wager that the amount of business per annum done by "Common Senso" and his fellows is by no means proportionate to the opportunities occurring in their various districts.

Yours truly, Yours truly, districts.

VERAX. (48/14.)

SIR,-The profit on unprotected patents, whatever may be said of the profit on patents in general, is *nil*, or, rather, it is a *minus* quantity; and I am amazed that pharmacists continue to stock them. It is sheer cowardice that induces them to do so. There is one aspect of the question which is often forgotten, and that is the extreme unfairness to those proprietors who do protect their goods of ness to those proprietors who do protect their goods of treating those that are not protected exactly as we treat theirs. Why should they forgo the chances of extra sale they might have by leaving their patents for open competition at eut prices, if by doing so they gain no favour from us? Something, no doubt, they do gain in good will, but it does not amount to much if we sell rival goods at lower prices than theirs. If I had a patent to sell, I should refuse to compete on these terms; and I hold that every retailer ought in honour to decline being made the agent of any proprietor who lends himself to the underenting of of any proprietor who lends himself to the undercutting of his neighbour. Yours truly, his neighbour. PHARMACIST. (E46/66.)

SIR,-Your correspondent "Common Sense" is asking for the millennium in the patent-medicine trade when he suggests that the selling-price of patents should be the advertised one. I wonder how many customers he loses by keeping up the prices? Or has he no competition? Is it not better to keep one's customers, losing, if necessary, on a few patents, and, once having got them in the shop, to gain their confidence, and then by the fair competition of one's personality and powers of salesmaship to sell them one's personanty and powers of satesmansmy to self them goods showing a fair profit in place of the advertised ones? Perhaps your correspondent will explain some practical method by which elemists, stores, grocers, general shops, and the like can unite to maintain prices. It should be interesting and useful. In reply to "Wholesaler," I would nteresting and useful. In reply to "Wholesaler, I would point out that, in common with many other chemists in the London district, I receive my goods from the patent houses by van, which obviates the necessity for boxes and straw, and should like to know why I should pay for what I don't get? My solution of the difficulty has been to change my patent house, and similar action on the part of a few more might induce the offenders to cease the offence.

Your faithfully.

New Barnet.

G. H. PIERSON.

SIR.—Some of the correspondence which has appeared in your columns regarding the above matter furnishes a reply to the oft-voiced query, "What is wrong with pharmacy?" Tho answer is that there are still far too many pharmacists of the type of "Common Sense" and "M.P.S.I." The former proudly states that if anyone asks for a 10½d. box of a 13½d. patent, he is "out of stock"—an attitude, I may say, adopted by this type of pharmacist which has afforded valuable assistance to the stores and the cash chemists, where goods are sold without comment and at fixed P.A.T.A. prices, without any attempt to obtain a further 3d. additional profit. The latter writes a letter of burning indignation on the same subject, voicing his wrath at being muleted of an additional penny on orders up to 1d. in value, and calculating this additional charge as involving him in an extra 7½ per cent. Would not "Common Sense" be better employed in meeting competition in a manner indicated by his nom de plume, and "M.P.S.I." in seeking fresh outlets for business and in renewing his acquaintance with percentage tables, rather than penning such letters concerning the misdeeds of whole-SIR,-Some of the correspondence which has appeared in than penning such letters concerning the misdeeds of whole-sale houses, who do not impose these additional burdens without very sound business reasons?—Faithfully yours, ACIDIFIED. (46/36.)

The Ueal Insurance Dispensing Letter.

The Ueal Insurance Dispensing Letter.

SIR.—In the C. & D., March 20, "Xrayser II." finds fault with a letter written to Ucal by a panel chemist, which it is proposed to reprint. I have seen the letter in question, and, though the writer only takes Glamorgan as an example, the faets he brings forward can be taken as typical of other districts. It is only too true that the two classes of people who benefit under the Insurance Act are the paid officials and the doctors, the latter receiving surplus funds for work they have not done. The chemist cannot get his accounts paid, and the insured panel patients are to be put off with cheap drugs. I do not think "Xrayser" would find many of a like mind to himself.

Yours faithfully,

PILLS. (45/3.)

PILLS. (45/3.)

Delayed Checking in Middlesex.

SIR,—Many chemists do not look at discounting questions as our representatives do. Chemists did not sign an tions as our representatives do. Chemists did not sign an agreement to take just what money was sent them. The idea was that a chemist, on sending in his account, would have it checked, and, if wrong, might get a cheque for a less amount than was sent in. The Middlesex Insurance Committee are wrong; they should have checked accounts from the first month; all iregularities would then have been known from the commencement. They did not do so, and through their popularities methods have caused as been known from the commencement. They did not do so, and through their non-business methods have caused a great deal of ill-feeling both to the chemists and the insured, which will not be improved when they know of the insured, which will not be improved when they know of the letter sent to medical practitioners telling them what to prescribe. I sent my forms in for January for pricing, and at the same time priced my duplicates. I was wrong by 4s. 2d.; because of that am I to be kept without the balance? From what I hear, tho drug-bill will be heavy this year, and we have had nothing yet for 1915.

Yours obediently.

Military Service by Civil Hospital D spensers SIR,-I agree with your correspondent "Khaki" that some recognition is due to the dispensers at hospitals which have been affiliated to the general military hospitals, but as they are in most cases "seven days a week men," I do not see much hope of them coming together in a meeting to voice their desires. In my own ease an increase of practically 100 per cent. of beds, taking, besides wounded. the sick and accident cases of 14,000 men billeted in the town. together with a large number of out-patients from these forces in training, makes no mean addition to the work of the dispenser. Like "Khaki," I feel that it is my "little bit," and am pleased to have the opportunity of doing it. bit," and am pleased to have the opportunity of doing it. I think, however, that it is part of a larger question whether our services should have recognition or not. My opinion is that if all men who are doing their duty in any eapacity were properly labelled it would greatly simplify the work of the recruiting officers; incidentally, such labeling would gratify the hospital dispenser by distinguishing like from the group of slockers.

> Yours, etc. RED CROSS (UNOFFICIAL). (45/56.)

[We shall be glad to hear from others who are in a similar way serving their country.—EDITOR C. & D.]

him from the army of slackers.

Trade-marks of Alien Enemies.

 $Mr.\ T.\ Swindells$  (Eeeles), following up the letters on the "Aspirin" trade-mark in the  $C.\ dc$  D., March 13. pp. 110-111, says:
"Two quite new and interesting points are raised by

your correspondents, and I should like to reply briefly to these.

(1) Messrs, Cox advocate 'own name' packages of acctyl-salicylie acid, and in the ordinary way no one more cordially approves the 'own name' policy than I; but in this case, where we are fighting a wealthy alien monopoly, is it not desirable to concentrate rather than diffuse our efforts, not desirable to concentrate rather than diffuse our efforts, and cannot this be best done by enlisting the interest and resources behind a reputable English brand, such as Messrs. Burroughs Wellcome & Co.'s 'Empirin,' Messrs. Kerfoot's 'Salaspin,' etc.? It is perhaps too much to suggest that all chemists should agree to stock one English brand only (there are too many Richmonds in the field, I am afraid), but that would be the ideal and logical course

to pursue.

(2) Your correspondent 'Thistle' mentions that a lay friend pieked the name 'Anglopyrin' out of a list of British marks as the one which appealed most strongly to him. The thought at once cecurs: Was not this because of its resemblance to the original word 'Aspirin'; and, if so, would not the ideal English mark be one which did not constantly recall the German name?—for, after all, any word that calls to mind the name 'Aspirin' is to a certain extent keeping alive the goodwill of an alien monopoly. Such names as Empirin, Coxpyrin, Anglopyrin, Nupirin, etc., have this defect, while Helicon, Asposal, and Salaspin would seem to avoid it."

Two Pharmacists in each Pharmacy.

Sir,—I observe a suggestion to this effect, which would certainly mean the crossing of very many pharmacies, perhaps mine among the rest. My business is not one of the smallest—there are four of us, besides an errand-boy. I was at the counter nearly two hours this morning, and during that time only one customer needed a qualified person to serve him; then came a time at home, when a pharmacist was needed. Again, in the afternoon I kept watch for about one and a-half hour; two poisons were sold, each only a pennyworth. The evening, again, is a busy time. This is a fair average of every day, for I have no market trade. I know shops which could be closed every afternoon, except market-day, without losing many every afternoon, except market day, without losing many every afternoon, except market-day, without losing many shillings a week. In my case I am present each day from about nine in the morning to closing-time, except for a short period just after midday, and then I am so near that I am in touch with the shop. The early-closing day provides time for rest and recreation. Even two pharmacists in a shop would not meet the case, unless they were partners. In time past I have had qualified assistants—some most trustworthy men, but others who, when left in charge, would leave the serving to a young apprentice, and would not come forward when acted. In cases like and would not come forward when asked. In cases like this a reliable unqualified man is a greater safeguard to the public. Should it become obligatory to have two pharmaeists in each shop, much as I should regret such a I should choose the lesser of two evils, cease to sell poisons, and come off the panel, for I am persuaded that the other alternative would not leave an adequate return for my own services and the capital invested.
Yours sincerely,
A COUNTRY PHARMACIST. (46/48.)

#### Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Japanese Vegetable.

"Can you give us the name of the vegetable-something tike a marrow, but larger—supposed to be Japanese, which is used for fruit-pulps, jams, and in custard-powder?"— Stanex (21/55).

Indians and the Enemy.

Mr. A. Macintosh Stewart, F.C.S., writing to us from Calcutta, says: "The Indian at present is right up against the 'Huns," and the 'specials' are eagerly read by all classes. The Falkland Islands fight, the sinking of the Emden, etc., were all hailed with great rejoicing in India. One native paper, in its delight, issued free notices:

#### Heap! Heap! Hurry! Emden Gone. Burned to the Ground.

Then followed the details. The Indian merchants can give some of the British people lessons in patriotism, as far us dealing with the enemy is concerned."

Another Burden on the Chemist.

"The London Pharmaceutical Committee have decided to treat poison-bottles in the same way as ordinary medicinebettles. More bottle-washing for the chemist, and nothing for it! If the pauper who goes to the infirmary or hospital makes no nurmu about paying 2d. for a bottle and retaining it, why not let the Insurance patient do the same thing? "—Panel Chemist (48/19).

#### Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to compounding difficulties. We welcome fresh problems and invite the co-operation and correspondence of dispensers in their elucidation.

Precipitate in Mixture.

Sir,—Would you tell me if it is possible to dispense the following prescription without causing a precipitate? I have tried several different methods of mixing, but aiways obtain a precipitate. Yours faithfully,

DARLINGTON. (37/41.)

			DAM	LILIU.	1074+
Calcii glycei		S.			зij.
Calcii lactat					51.
Tinct. sumb					51j.
Ac. phosph.	dil.				3iij.
Aq. ad					5V J.

[There should not be more than a slight granular pre-cipitate—not enough to cover the bottom of the bottle— and that only after the mixture has stood for twelve hours and that only after the mixture has stood for twelve hours or longer. Possibly your difficulty has originated with the calcium lactate, which is subject to change with age. For mixture-purposes it should be prepared on the spot. For the present requirement dilute 48 minims of lactic acid with 2 fl. oz. of distilled water and neutralise with about 20 grains of precipitated calcium carbonate, conducting the operation in a wide dish, with vigorous stirring in order to get rid of CO<sub>2</sub>; this yields 60 grains of calcium lactate. To prepare the mixture, dissolve the calcium glycerophosphate in the available water and solution of calcium lactate, finally introducing the phosphoric acid and tincture of sumbul.]

Quinin and-Acetate Mixture.

SIR,—I would be pleased if you could enlighten me on the correct method of dispensing the following mixture:

Quininæ sulph	 	gr. ij
Liq. strych	 	mij.
Liq. ammon. aeet.	 	5j.
Syr. scillæ	 	mxx.
Aq. ehloroformi ad	 	3j.

Knowing that the doctor has quinine in solution, I first acidulated the liq. ammon. acet. and diluted it with aq. ch|roformi. Then I dissolved the quin. sulph. with acid. ehloroformi. Then I dissolved the quin. sulph. with acid. sulph. dil. q.s., diluted with aq. chloroformi; mixed the two solutions with shaking: and. lastly, the liq. strych. and syr. scillæ, making up to the required amount prescribed—8 oz. This was a presentable mixture, and did not appear to separate, as I left it to stand for about twenty minutes. However, we had it returned the following morning, with the doctor's initials: "Adde acid. sulph. dil. to dissolve." We got into communication with the doctor, and we were instructed to omit the liq. and acet. and we were instructed to omit the liq. am. acct.
G. J. H. (38/27.)

[The correct way to compound this mixture is to rub down the quinine sulphate with the other ingredients, and dispense with a "shake" label. If the quinine be dissolved in the way which you adopted, double decomposition ensues with formation of quinine acetate, which is promptly hydro-lysed, and quinine hydrate crystallises out in tufty bulky crystals. Messrs. Kidd and Hill, Edinburgh, dealt with this reaction, and explained it some years ago, and you will find a reference to it in the "Art of Dispensing," p. 250.]

#### Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

Comrac (45/44).—No person carrying on retail business may use the title "druggist" in Great Britain unless registered under the Pharmacy Acts.

M. D. G. (38/20).—Wine-licences similar to those obtainable in England are not granted in Scotland. The only available licence is that granted to grocers, and application has to be made at the magistrates' licensing-meetings in April, as to which your best plan is to address the local Town Clerk.

Oliver (41/71).-Your queries in regard to registered Other (4/11).—Your queries in regard to registered chemists carrying on branch businesses as drug-stores are anticipated by the paragraph on "Branch Shops" in the C. & D. Diary, p. 410. It may be unwise for a chemist to advertise the fact that Insurance prescriptions are received at the branch and dispensed at the head office, but we are not aware of anything that would preclude him from so

Justice (44/67) has held a house, shop, and yard in Ireland on a quarterly tenancy since 1897. The landlord has always paid half the poor-rate, but now calls upon "Justice" to pay a higher rent and the whole of the poor-rate. If "Justice" refuses to pay the increased rent, and is given notice to quit, has he any claim for compensation against the landlord? [If the amount of the rent now demanded is unreasonably large, and as the result "Justice" is unable to continue his tenancy, he has a claim against the landlord under the Town Tenants (Ireland) Act, 1906, for compensation in respect of all improvements executed by him which add to the letting-value of the promises, and may also have a claim in respect of loss of the goodwill of his business.] business.]

#### Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

R. H. N. (47/57).—You will find an excellent formula for BLACKHEAD OR PIMPLE REMOVER in the C. & D., January 16, p. 60. Sulphur-ointment is also serviceable.

Rajah (28/65).—The GARGET SALVE you send does not Rajah (28/08).—The Garger Salve you send does not appear to be anything more than a stiff soft paraffin containing cresolin. As a rule, a mercurial preparation—oleate of mercury or ung. hydrarg.—is used when it is desired to combat the hardness of the udder.

Cymro (31/43).—Saddle and Harness Gall Ointment.— The following is a similar preparation to your sample:

Alum. exsiec., Zinc. oxid., Pulv. gallæ ... Indigo q.s. Adipis Misce

Apply night and morning to the sore places.

(32/13).—SILVER-CLEANING POWDER.—This is special form of sodium earbonate, such as the "Crescent" brand. You do not say how it is used.

W.~S.~(27/21).—Dry-Shampoo Liquid.—We gave in the C.~d.~D., July 5, 1913, p. 68, and March 16, 1912, p. 64, model formulæ for the preparation of dry-shampoo liquids. These may be taken as bases from which various developments can be evolved by experiment. The manufacture of the cheap spirituous preparations involves the use of indus-Excise must be approached. The green colour of the sample is matched by the use of spirit-soluble chlorophyll; the way the perfume is managed is shown in one of the examples referred to above.

Stanca (21/55).—Confectioners' Colours and Flavours.—The colours are either liquids (solutions of approved anilino dyes in water) or pastes (the base being dextrin). The matter was dealt with in an article on trade recipes in the C. & D. Diary, 1908. Flavouring-essences have usually a basis of rectified spirit (5) and water (3), glycerin not being suitable for concentrated flavours. The following illustrate the composition of confectioners' flavours:

Essence of Raspberry. Essence of Anisc. Essence of Amse.

Anise oil ... 1 oz.
Rectified spirit ... 14 oz.
Distilled water ... 10 oz.
Triturate the oil with kaolin before shaking with the solvent. Filtor bright after standing for a week with occasional agitation. Butyric ether ... 4 dr. Acetic ether ... 1 dr. Amylo-acetic ether  $\frac{1}{2}$  dr. Orris oil ... I dr. Chloroform ...  $\frac{1}{2}$  dr. Chloroform ... ½ dr. Rectified spirit ... 2 oz. Colour (red) a sufficiency Essence of orris ... 1 pint

We are inquiring regarding the Japanese vegetable about which you ask.

T. C. (27/24).—The identification of derelict parcels of chemicals does not come within the scope of this column. We agree with you, however, that the red powdor is probably a disinfectant-powder, while the coarse white powder seems to be sodium sulphate.

P. B. (29/4).—Wood-violet Perfume.—Several formulæ are given in "Pharmaceutical Formulas." The following are two other recipes illustrating the composition of this perfume:

I.	II.
Cassia extraet 6 oz.	Violet extract 2.500 parts
Violet extract 4 oz.	Jasmin extract 200 ,,
Rose extract 3 oz.	Rose extract 200 ,,
Tuberose extract 3 oz.	Cassia oxtract 200 ,,
Essential oil of .	Musk tineture 10 ,,
almonds 15 drops	Benzoin tineture 50 ,,
	Artificial rose oil 3 ,,
	Artificial ylang-
	ylang oil 3 "
	Irisolette 20 ,,

Vine (38/17).—Lime-Cream.—See C. & D., October 17, 1914, p. 62, for an explanation of the separation of lime-cream, and also the remedy.

G. C. W. (India) (36/18).—The details of the manufacture of chloroform and bleaching-powder can best be studied in Thorpe's "Dictionary of Applied Chemistry." It will be necessary to decide upon the processes you intend employing before you can go into the question of the plant

P. (26/26).—Preserving Invalids' Jelly.—In a C. F. P. (26/26).—Preserving Invalides' Jelly.—In a compound of gelatin and port wine the alcohol acts partly as a preservative, but as a rule the quantity contained in the jelly is but small. Salicylic acid in the proportion of 1 dr. to 4 lb, of jelly prevents fermentation or the formation of moulds in ordinary circumstances. Whether this will "meet the requirements of the Sale of Food and Drugs Acts" depends upon an advocate's ability to prove that the addition of preservative is not to the prejudice of the purchaser. The Departmental Committee on Preservatives which represented in 1901, recommended that the guaranteed in 1901, recommended the 1901 in 1901 in 1901, recommended the 1901 in 1901 in 1901, recommended the 1901 in 190 tives, which reported in 1901, recommended that the quantity of salicylic acid in food should be limited to 1 grain per lb, or pint, but that the addition of preservatives to infants' and invalids' dietetic preparations should be prohibited entirely. No objection appears to be taken to the uso of salt as a preservative.

(43/33).—Bleaching-Liquid.—To prepare the T. A. J. (43/33).—BLEACHING-HIQUID.—To prepare the bleaching-liquids containing aluminium hydrochloride, a strong solution of chlorinated lime is prepared and filterod, and to this is added saturated solution of alum until no further precipitate of calcium sulphate is obtained. The liquid is then decanted and bottled.

#### Retrospect of Fifty Years Ago.

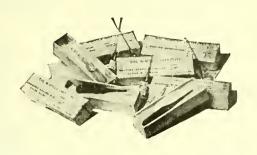
Reprinted from "The Chemist and Druggist," March 15, 1865.

Caffeine in the Kola-nut.

Caffeine in the Kola-nut.

With a good supply of fresh Kola-nuts the white trader in Africa can generally secure the friendship and protection of the native chiefs. From time immemorial these nuts have been chewed by the negro tribes of the Western tropical regions, and their use has gradually extended over a considerable portion of the African continent. Strange to say our best botanical treatises give us little information respecting these highly-prized seeds. They tell us that they are obtained from the Kola-tree (Cola acuminata or Sterculia acuminata), a plant belonging to the natural order Sterculiaeeæ (or the Silk-Cotton family); but what they say about their use consists, for the most part, of incorrect statements culled from the works of old travellers. Thus in Professor Bentley's "Manual," which is generally so trustworthy, the Kola-nuts are dismissed with vellers. Thus in Professor Bentley's "Manual," which is generally so trustworthy, the Kola-nuts are dismissed with generally so trustworthy, the Kola-nuts are dismissed with a trivial notice of their supposed property of sweetening water that has become more or less putrid. At a recent meeting of the Pharmaceutical Society, the true nature of the popular masticatory of West Africa was revealed in two excellent papers; one, by Dr. Daniell, giving full information respecting its history and properties, and the other, by Dr. Attfield, recording the results of a chemical analysis. The result of Dr. Attfield's analysis has fully confirmed Dr. Daniell's discovery of caffeine in the Kolanut A quantitative determination showed that the pronut. A quantitative determination showed that the proportion of the alkaloid present in the dried nut is two per cent. The proportion in coffee is from one-half to two per cent.; and in tea from one-half to three and a half per

All Chemists should hold a full stock of the "Wimpole" Vaccines in view of the great demand occasioned by the War and climatic conditions.



## CHOLERA VACCINE

For Prophylaxis only.

Doses No. 1 and No. 2 ... ..... 2/6 each.

Dose No. 1 should be followed in 5 days by Dose 2, which may be repeated after another 5 days if thought necessary.

## **MENINGOCOCCUS VACCINE**

For Prophylaxis and Treatment.

Millions 1/6 1/9 2/- 2/6 3/6 5/- 7/6 Price

## ANTI-TYPHOID VACCINES

Nos. 1 & 2 for Prophylaxis.

No. 1 contains only the true Bacillus Typhosus, whereas No. 2 which was first introduced by us to the profession four years ago, contains also B. Paratyphosus A and B and is to be preferred to the former. The first dose of 500 millions is succeeded by one of 1000 millions after 7 or 8 days; if a strong reaction occur after this latter it should be repeated in 8-10 days, if no strong reaction occur 2000 millions should be given as the third dose.

500 Millions 1000 2000 Prices for No. 2 2/6 36 5/-

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was first introduced by us to the Profession eight years ago and is fully established in favour as the best and most reliable preparation on the market

Millions 25 50 100 250 500 Price 2 6 3 -4/6 6 8 10 -

## TYPHOID VACCINE No. 3

For Treatment.

Millions 50 **2/3** 100 500 2 6 Prices 3/-

## WHOOPING-COUGH VACCINE CO.

For Treatment

is much in favour, and is favourably reported on by one of the largest hospitals in the Kingdom. It contains a due proportion of B. Influenza and Pneumococcus in addition to Bordet's Bacillusfirst introduced by us. Initial dose advised for children of 3 years and over, 100 millions.

500 7/6 Price 10/6

#### RHEUMATIC FEVER VACCINE For Treatment.

Has been highly approved of by a distinguished Hospital Physician (see vol. 1., No. 1, Fever Vaccine Therapy). Initial dose 10 millions.

Millions 2.6 3/-3 6 7/6 Price 5

Numerous other Vaccines can also be supplied

#### **TUBERCULINS**

In consequence of the war, Koch's preparations are no longer obtainable, and can be replaced to great advantage by ours, which in the case of old Tuberculin, old Tuberculin "A.F." (Albumose Free) and Bacillary Emulsion are prepared in a similar manner. For "T.R." we advise our own preparation "M.," which we claim to be a distinct improvement upon "T.R." Both Human and Bovine preparations are available in 1 cc. bottles. Human types, prices per 1 cc. as follows :-

Old Tuberculin, 1,-; Old Tuberculin "A.F.," 2/-; "B.E.," 2,-; "M." 8/6

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Manufacturing Chemist

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Allen & Hanburys (Lim.) | Hirst, Brooke & Hirst. Baiss Bros. & Stevenson | Hodgkinson, Prestons & (Lim.)

(Lim.)
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
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Co.

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Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
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Duncan, Flockhart & Co.
Evans, Gadd & Co.
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Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
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Ward.
Horner & Sons.
Huskisson, H. O., & Co.
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Roller & Shoemaker, Philadelphia. Schieffelin, W. H., & Co., New York. Shoemaker, R., & Co., Philadelphia.



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**MARCH 1915.** 

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Bismuth Carbonate		• • •					•		
,, Subnit.									
Cotarnine Hydrochle						• • •	* * *	,,	" Stypticine "
Diethylbarbituric Ac							1,	+1	" Veronal "
Dimethylaminoantip		•••	• • •	• • •	•••	• • •	11	, 1	'' Pyramidon ''
Guaiacol Carbonate		• • •		• • •		• • •	11	,,	" Duotal "
Hexamethylenetetra			•••	···		:	<b>+</b> 1	11	"Urotropine"
**	•	anhyd	romet	hylen	Citra	te	,,	,,	"Formamol " or "Helmitol"
lchthosulphol	•••	•••	• • •	• • •			,,	**	"Ichthyol Ammon"
Methylacetanilid	•••	•••	•••	• • •	• • •	• • •	+ 1	**	'' Exalgine ''
Methylendittan	• • •	•••	• • •				11	,,	'' Tannoform ''
Naphthol Benzoate	•••	•••	• • •	• • •	• • •	• • •			4.50
				•••	• • •	• • •	11	**	"Betol"
Potassium ortho-oxy				iate	***	• • •	* *	,,	"Chinosol"
Potassium Guaiacol			•••	•••	• • •	• • •			41 27 * *
Quinine Ethyl Carbo	mate	•	• • •	• • •	***	• • •	5 P	**	" Uguinine "
Salol Silver Colloidale	•••	• • •	•••	• • •		• • •			(( Callannel ))
Neglainata	•••	•••	•••	•••	•••	• • •	* *	9 7	"Collargol"
Destainata	• • •	•••	•••	• • •		• • •	**	* *	"Argyrol"
Theobromin Sodium	Acat		•••	• • •	• • •		.,		"Protargol" "Agurine"
Theobromin Sodium				•••			11	7.7	"Diuretine"
incontonini Soutum	Sant,	yrate	• • •	•••	• • •	• • •	71	**	Diaretine

#### PHOTOGRAPHIC CHEMICALS.

Diamidophenol	Hyd	rochl	or.			•••	F	ormerly	known	as	" Amidol "
Hypo Soda				• • •		• • •	•••				
Hydroquinone					• • •						
Monomethylparamidophenol Sulphate								,,	,,		" Metol"
Soda Sulphate	Pea	Cryst	tals								

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Lavender Spike	Otto of Rose, Bulgarian	Violet C.
Lemon Oil	,, ,, Artificial Phenyl-ethyl-alcohol	Wintergreen Oil, Pure

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Pharmaceutical Journal. October 22, 1904.

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Oxymel Scrillag, B.P., 5 cwt. @ 34/6 cwt.; 1 cwt.
@ 36/- cwt.; \*7 lbs. @ 7d. lb.

//3 lb, Pepsin, R P , 1 lb. @ 1 c/- b Phenacetin, P B , pulv., 7 lbs. @ 14/- lb. ; 1 lb. @ 14/t lb. Phenazone, P B, 7 lbs @ 1'/- ; 1 lb. @ 16/6 lb. Pheuolphthaiem 7 lbs @ 10/6 lb · 1 lb @ 11/-

Pix Burgund., Druggists', 11 cwt @ 26/6 cwt.;

7 bs. @ 14d lb.
Plumbi A.etas, Druggists', 1 cwt. @ 45/- cwt.;
A'bs. @ 64d b. Powder 14d lb, extra.
Portuppy 1 Resina t B | to @ .3/- tb.
Potassa Caustica Sticks. P.B., 6 1-lb. Bots. @

2,6 lb Potas, Acetas, Gran, P.B., 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/6 lb.
Potas, Bicarb, Pulv., 1 cwt @ 67/- cwt.; 7 lbs.

@ 8d. lb.
Potass Brom. P.B., 28 lbs. @ 3/7½d. lb.; 7 lbs.

Potass Brom. P.B., 28 lbs. @ 3/7½d. lb.; 7 lbs. @ 3/1 lb.
Potass Clubr Pnlv., 7 lbs. @ 2/- lb.
Potass. Cit. B.P., 7 lbs. @ 3/- lb.
Potass. Cyanidum, 98%. 1 cwt @ 2/2 lb.; 7 lbs. @ 2.4 lb.
Potass. Lod., P.B., 1 cwt. @ 12/10 lb.; 14 lbs. @ 13/4 lb; 3 lbs @ 14/- lb.
Potass. Metabisulph.. 7 lbs @ 1/3 lb.
Potass. Metabisulph.. 7 lbs @ 1/3 lb.
Potass. Permang., Crvst., 7 lbs. @ 1/5 lb.; large cryst., 7 lbs. @ 1/5 lb.; Potass. Prussias Flav., 7 lbs. @ 1/5 lb.; Potass. Prussias Flav., 7 lbs. @ 7.4 lbs. @ 7.4 lb.; c Opio, B.P., 71bs. @ 1/9 lb.
Pulv. Cretæ Arom. P.B., 14 lbs. @ 7.4 lb.; c Opio, B.P., 71bs. @ 1/9 lb.
Pulv. Glvcvrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 5 /- cwt.
Pulv. Iperac, Comp. P.B., 1 lb. @ 5/3 lb.
, Jalap Comp. P.B., 1 lb. @ 1/9 lb.
, Rhei Comp. P.B., 1 lb. @ 1/2 lb.

uassia Chips, 1 cwt. @ 13/6 cwt.; 28 lbs. @

Quinine Bisulph., 25 oz. @ 1/5 oz.; 10 oz. @

Quinine Bishpia, 22 cs. (1/6 oz. 1/6 oz. Quinine Ethyl Carb. (Tasteless), 10 oz. @ 2/6 oz. Quinine Hydrobromas, B.P., 25 oz. @ 1/8½ oz.; 10 oz. @ 1/9½ oz. Quinine Hydrochlor., B.P., 25 ozs. @ 1/8 oz.;

10 ozs. @ 1/9 oz. Quininæ Sulph., B.P., 100 oz. @ 1/2 oz.; 25 oz. @ 1/3} oz.; 10 oz. @ 1/4 oz.

Rad. Gentian, English Ground, 1 cwt. @ 47/6 cwt.; 7 lbs. @ 6d. lb.
Rad. Glycyrrh. English Ground, 1 cwt. @ 33/-cwt; 7 lbs. @ 4\frac{1}{2}d. lb.
Rad. Jecaca Rio., 7 lbs. @ 15/-; 1 lb. @ 15/6.
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7/lbs, @ 1/4½ lb.

Rad, Rhci., E.I., English Ground, 1 cwt. @ 1/3
lb; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.

Rad Rhei. E.I. Frimmed, 7 lbs. @ 5/3 lb.;
1 lb @ 5/9 lb

Resorcin, B.P., 7 lbs. @ 7/3 lb.; 1 lb. @ 7/3 lb.

Saccharm., 7 lbs, @ 26/- lb; .550 or 500 lb. @ 27/c lb: .335 lbs. @ 24/- lb.; lb.@

251t. par Ust., 1 cwt. @ 27/- cwt.; 10 lbs. (a 4.1 In.

(24.1 In., Saftren Valentia, B.P., 7 lbc. (24.4 lb.; 1 lb. (250/- ib.; 1 oz. (25.4 cz.) Sai, Acetos, 7 lbs. (25.4 lb. (25.4 lb.) Salicinim, B.P., 1 lb. (26.4 lb.) Salos, B.P., 1 lb. (27.4 lb.) Sang Draconis, pulv., English ground, 7 lbs. (26.2 lb.)

Sang Driconis, pulv., English ground, 7 ibs. @ 2/4 lb.

Santonium P.B., 16 o' @ 1 5/- lb.

Sapo Cas' Alb., 1 cwt. @ 32.6 cwt.; 2 cwt. @ 33/. cwt. 7 is. @ 3/d rulv., 1 cwt. @ 32/- cwt., 55 ibs @ 85/- cwt.; 7 lbs. @ 1/d lb. Animai pulv., 1 cwt. @ 76/- cwt.; 56 lbs @ 72/- cwt. 7 lbs. @ 3/6 lb.; 3 lb. @ 3/4 lb.

1 lb @ 4/ lb. Shelia (Orange), 1½ cwt. @ 68/- cwt.; 7 lbs. @

9d. lb Soda Caustica, 28 lb tins @ 81d. lb.; 6 1-lb.

bots. @ 19d. b.
Seda Cir., B.P. 3 lbs. @ 3/2 lb.
Soda Sulphite, Recryst., 1 cwt. @ 17/6 cwt.;
7 lbs. @ 4d. lb.

No. 2 40, 10, Soda Sulphocarbolas, B.P., 7 lbs. @ 1/7 lb.; 1 lb @ 1/10 lb. Sodi Bromid , P.B., 7 lbs. @ 3/4 lb. Soda Hyposulphite pea cryst., 1 cwt. @ 14/6

Sodii Salicyt Purv., 2 lbs. @ 10/6 lb ; phys. pur.,

1 lb. @ 11/- lb. \*Spt. Æther Nit. P B., 4\frac{1}{2} lbs. @ 3/9 lb. : 1 lb. @ 4/- lb.

, Ammon. Aromat., P.B., 5 lbs. @ 2/11 lb. \* ,, Chloroform, P.B., 5 lbs. @ 3/8 lb. Stroutiæ Bromid., 7 lbs. @ 4/6 lb.; 1 lb. @ 5/- 1b

Strychnina Cryst. B. P. 4 oz. @ 2/1 oz.; Hydroch,

and Sulphate, 2d. oz less. Sugar of Milk, P.B., 1 cwt. @ 85/- cwt.; 7 lbs.

Sugar of Milk, P.B., 1 cwt. @ 85/- cwt.; 7 lbs. @ 10d. lb.
Sulphonal P.B. 1 lb. @ 15/3 lb.
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\*, Scille, P.B., 7 lbs. @ 9ld. lb.
\*, Scille, P.B., 7 lbs. @ 9ld. lb.
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Tinct. Autantii Recens., B.P., 5 lbs. (a) 3/6 lb.; bond, 8\frac{1}{2}d. Aquos, 10d. lb.

\*Tinct. Belladon., B.P., 5 lbs. (a) 3/3 lb.; bond, 6\frac{1}{2}d. Aquos, 1/- lb.

\*Tinct. Benzoini Comp., P.B., 5 lbs. (a) 3/7 lb.; bond, 10d.

bond, 10d.

\*Tinct, Camph. Comp. P.B., 5 lbs. @ 2/8 lb.; bond, 6\frac{3}{2}d. Aquos, 1/1 lb.

\*Tinct, Cantharidis, P.B., 5 lbs. @ 4/- lb.; bond, 6d. lb.

\*Tinct, Capsici, B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb. Aquos, 10d. lb.

\*Tinct, Card, Comp., P.B., 5 lbs. @ 2/2 lb.; bond, 7\frac{3}{2}d. lb. Aquos, 1/- lb.

\*Tinct, Catechu, P.B., 5 lbs. @ 2/6 lb.; boud, 7\frac{3}{2}d. lb. Aquos, 1/- lb.

\*Tinct, Chlorof, c. Morph., P.B. 1885, 5 lbs. @ 2/2 lb.; bond, 1/6\frac{1}{2} lb.

\*Tinct, Cinchon, Comp., B.P., 5 lbs. @ 3/2 lb.; bond, 1/0\frac{1}{2} lb.

\*Tinet Canhon Rub., P.B., 5 lbs. @ 3/1 lb. bond, 13d, lb. Aquos, 1/2 lb.
\*Tinet, Digitalis, B.P., 5 lbs. @ 3/3 lb. bond, 6\{\}d lb. Aquos, 1/- lb.

\*Tinet, Gelsem P.B., 5 lbs. @ 2/31 lb.; bond, 6\{\}d. lb. Aquos, 1/- lb.

\*Tinet, Gerlsem P.B., 5 lbs. @ 2/11 lb.; bond, 6\{\}d. lb. Aquos, 1/3 lb.

\*Tinet, Gentiane Comp., B.P. 5 lbs. @ 1/11\{\}\}

lb.; bond, 7\{\}d. lb. Aquos, 1/- lb.

\*Tinet, Hy, evani, B.P., 5 lbs. @ 3/2 lk. bond, 7\{\}d. lb. Aquos, 1/5 lb.

\*Tinet, Iodi., B.P., 5 lbs. @ 4/2 lb.; Fort. @ 6/- lb.; bond, 1/9 lb. decolor., 5 lbs. @ 4/10 lb.; bond, 1/6\{\}\.

\*Tinet, Lavandulæ Comp., B.P., 5 lbs. @ 2/10 lb.; bond, 7\{\}d. lb. Aquos, 1/- lb.

\*Tinet, Myrrhæ, B.P., 5 lbs. @ 3/9 lb: bond, 1/5 lb.

\*Tinet, Myrrhæ, B.P., 5 lbs. @ 3/9 lb: bond, 1/5 lb.

\*Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb: bond, 9!d. lb, 'stinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb. Aquos, 1/ lb. 'Tinct. Opii., B.P., 5 lbs. @ 5/- lb.: bond, 3/4 lb, 'Tinct. Opii. Aquos, 5 lbs. @ 3/- lb. 'Tinct. Opii. Aquos, 5 lbs. @ 3/- lb. 'Tinct. Opii. Aquos, 5 lbs. @ 2/- lb.: bond, 1/0½ lb. 'Tinct. Rhei Co, B.P., 5 lbs. @ 2/- lb.: bond, 1/04. lb. Aquos, 1/- lb. 'Tinct. Scillæ, B.P., 5 lbs. @ 2/6 lb.; bond, 7½d. Aquos 10d. lb. 'Tinct. Scillæ, B.P., 5 lbs. @ 3/3 lb.; bond, 1/5½ lb. Aquos, 1/5½ lb. (3/10 lb.; bond, 1/5½ lb. Aquos, 1/5½ lb. (3/10 lb.; bond, 1/5½ lb. Aquos, 1/5½ lb. (3/10 lb.; bond, 8½d lb.)

bond, 83d lb.
\*Tinct. Vareriane, 5 lbs. @ 2/9 lb.; bond, 6d. lb.

\*Tinct. Val-riane Ammon., P.B., 5 lbs. @ 3/1 lb.:

bond, 2d b. Aquos, 1/2 lt.
\*Tinct. Zingib, P.B. 5 lbs @ 4/- lb. bond, 61d. lb.

\*Tinct. Zingib. Fortior., 5 lbs. @ 4/3 lb.; bond, 10½d. lb.

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Acid, Carbol., B.P., 28 lbs. @ 9d, lb.; 7 lbs. @ 10d, lb.; 1 lb. @ 1/- lb. Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/10 lb. Hydrargyri, B.P., 28 lbs. @ 1/11½ lb.; 7 lbs. @ 2/14 lb. " lb.

" lbs. @ 2/1½ lb. Hydrarg, Ammou., B.P., 28 lbs. @ 1/- lb.; Ibs. @ 1/3 lb.

Hyd. Nit. Dil., 7 lbs. @ 10d. lb.

Paraff, Alb., P.B., 28 lbs, @  $8\frac{1}{2}$ d. lb.: 7 lbs. @  $9\frac{1}{2}$ d. lb.: 1 lb. @  $11\frac{1}{2}$ d. lb.; Flav. 28 lbs. @  $6\frac{1}{2}$ d. lb.; 7 lbs. @ 8d. lb. Resinæ, P.B., 28 lbs. @ 1/- lb. 7 lbs.@

Sulphuris, B.P., 28 lbs. @ 9d. lb.; 7 lbs.

" @ 10d. lb. ,, Zinci Oxid. Benz., B.P., 28 lbs. @ 9d. lb.

Wax, Japan, 2 cwt. @ 70/- cwt.; 7 lbs. @. 9d. lb.

 Zinci Oleat. Powder, B.P.C., 7 lbs. @ 2/- lb.
 Zinci Oxid., 1 cwt. @ 56/- cwt.; 28 lbs. @ 6 d. lb.; 7 lbs. @ 7 ld. lb. Sulph., pure, 1 cwt. @ 19/6 cwt.; 28 lbs.

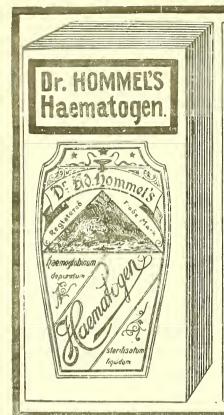
@ 2 d. lb. ", Sulphocarbolas, B.P., 75@ 1/7 lb.; 1 lb. @ 1/1 lb.

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[See p. 497 "C. & D." Diary 19:5

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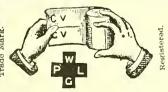


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See pages 5 to 7.

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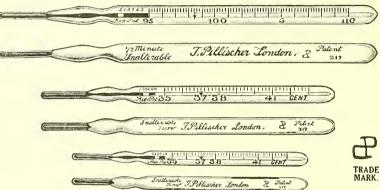
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ABSORBENT LINTS. BANDAGES, GAUZE, &c.

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#### Please Try Our DISPENSING BOTTLES & PHIALS.

We send six gross assorted or otherwise, carriage paid to certain stations, particulars on application. Smaller quantities not carriage paid.

REDUCED PRICES.

 Clear Blue Tinted—Good Quality.

 3 & 4
 6 & 8
 12
 16 oz. Plain or graduated, round edges.

 8/6
 9/6
 14/ 18/- per gross.

Clear Blue Tinted. Best Quality. QUININE. 3 & 4 6 & 8 12 16 oz. Plain or graduated, round edges. 12 16/-10 6 11/6

20/- per gross.

CHEAP BOTTLES for dispensing. 8 oz. Plain or graduated, round edges. 9/- per gross.

6 **3**.-8/-

 WHITE PHIALS—GOOD QUALITY.

 1
 1
 1½
 2 oz. Plain or teaspoons

 4/ 4/6
 4/9
 5/3 per gross.

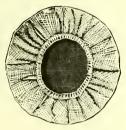
I. ISAACS & CO.,

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.
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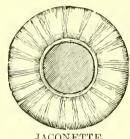
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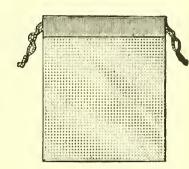
MADE ON OUR PREMISES.







JACONETTE.



BATHING CAPS.

... per doz. 4/6 Check Sheeting, Jaconette, pink, drab or yellow ... Twill ,, superior quality, ,, or coloured proofing ... We make these in sizes suitable for School Children at 4/- per doz.

No. 1 9×8  $8 \times 7$ 10×9  $11 \times 10 \quad 12 \times 11 \quad 13 \times 11 \quad 14 \times 13$ SPONGE BAGS. Sizes 7×6 3/9 4/3 5/-9/-10/9 Check Sheeting, per doz. 3/3 7/-Check Twill, super, " 6/6 10/-

## CUXSON, GERRARD & CO., OLDBURY

## Large Profit! Selling Lines!

Hat - Cleaning Balls

(Each in a hat),

24/- per gross net.

Hat-Cleaning Powder

(In Envelopes),

12/- per gross net.

Cloth Ball

(White or coloured), 54/- per gross.

SAMPLES FREE ON APPLICATION.

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Have now a large sale through CHEMISTS, and early application should be made for illustrated Counter Bills & Showcards

Awarded Gold Medal Anglo-American Exhibition. Commended by Royal Horticultural Society.



**POWDER** WEED KILLER.

acked in small decorated tins. Immediately soluble in cold water.

All Tins Free. Ho return Empties. SPECIALLY ADAPTED FOR EXPORT,

Strength: 1 gall, sufficient for 25 galls, of Water, AND DOUBLE STRENGTH.

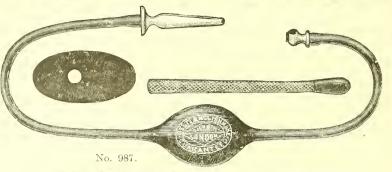
ARSENITE OF SODA, 80% ARSENATE OF LEAD. QUASSIA CHIPS.

The Acme Chemical Company, Ltd. TONBRIDGE, KENT.

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BRITISH MAKE.

#### GUARANTEED FOR 2 YEARS.

No. 987.—The "B.E.M	.'' (best English make	e) with bone rectal	pipe, etc	c.,	S		đ.
		complete in supe	rior card	box per «	doz. 1	8	0
7.7	+1	in leatherette d	ome-top o	ease ,	., 2	0	0
11	11	super quality	, ,	1	,, 2	4	0
	extra large and sto		e made	,	, 3	2	0
No. 275.—Warne's pulse		complete in case		,	-	4	_
2.7	arabesque rubber	11	***	***	,,	6	0
 -71 7 f	larger and stouter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, 3	9	0

5% discount allowed for prompt cash off above prices. Carriage paid on Orders of £2 and upwards to any town in the United Kingdom.

We are the right House for BRITISH-MADE GOODS—Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery. Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE.

OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED,

## BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

## A Minimum profit of 20%

Hardcastle's Preparations have now been registered on the P.A.T.A., and as an extensive advertising campaign has just commenced for their well-known Ointment, Hardcastle's Balm of Gilead, it would be wise to order a small supply immediately.

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## BALM of GILEAD

-a sovereign balm for every wound-



The above Trade Mark is the symbol of quality and efficacy, and is displayed on eve y package of the genuine Hardcastle's Balm of Gilead.

has been registered to be retailed at  $7\frac{1}{2}d$ ., 1/, and 2/6 (minimum), the wholesale prices being 6/–, 10/– and 25/– per dozen respectively. Orders supplied either direct or through your wholesaler, irrespective of quantity. Write for terms regarding window displays.

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Hardcastle's Balm of Gilead has an enviable reputation for the cure of cuts, wounds, and all skin complaints, having been manufactured by the Proprietors for over a century, A return of 50% to 65% on outlay can be made by all Chemists who will handle 'HOME' BATH CABINETS.

BRITISH-MADE THROUGHOUT.

To give you a fair start, we offer a Sample Cabinet complete, and a supply of strong selling literature at the following cut prices, Cash with Order.

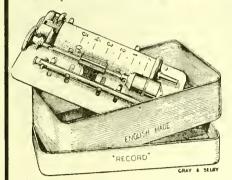
With Inside Spirit Heater 23/4; Retailing at 35/-,, Outside ,, ,, 32/- ,, 45/-

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THE ONLY MAKERS TO THE TRADE.



## HYPODERMIC "RECORD" SYRINGE



We have made very extensive and special additions to our existing plant, and are now manufacturing "Record" Syringes. Every Syringe is complete with 2 needles in metal case,

## WARNING.

Attempts are being made to sell German made "Record" Syringes from Switzerland, Holland and America. We warn the Trade that importing German Goods via neutral countries is Trading with the Enemy, and renders buyers liable to prosecution.

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## Patent Hot Water Bottle Stoppers.

Patent No. 28744/13.



Indiarubber Hot Water Bottles fitted with these Patent Stoppers have, during the past winter, been sold by over 5,000 Chemists, and have given entire satisfaction.

Obtainable through every wholesale house in Great Britain and Ireland.

#### ADVANTAGES :--

Stopper Sockets can never become loose. Bottles cannot leak around the stopper. No unsightly wiring on of stopper. Stopper Socket firmly embedded and anchored in the neck of hot water bottle. Stoppers fitted right down at the bottom of the funnel. No scalding water left in funnel after filling.

NO EXTRA COST. NO MORE LEAKY BOTTLES.

Sample Stopper Socket sent Post Free.

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## PROFITABLE ENGLISH MADE GOODS.



BLACK OR TRANSPARENT

2/3 per doz. net

24/- per gross net.

(for orders of 3 doz. and over).

INGRAM'S





TEAT AND VALVE.

BAND GRIP TIGHTLY TO THE BOTTLE

STERILIZABLE BY BOILING. HYGIENIC. PERFECTLY

BLACK OR TRANSPARENT

19 per doz. net

18/9 per gross net.

(for orders of 3 doz. and over).

Retail price 25d. each.

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AND

Retail price 3d. each

Patentees and Manufacturers:

If your Wholesaler cannot supply, please write us:-

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NOT SLIP OFF.

LADIES' ABDOMINAL and SUPPORTING BELTS **ACCOUCHEMENT OUTFITS** SANITARY TOWELS BATHING CAPS BATH GLOVES SPONCE BACS HOLDALLS ETC. ETC.

ESTABLISHED 1850





PERFECTUM DOUCHE CANS (ALUMINIUM) ENAMELLED IRON DOUCHE CANS SOAP BOXES (ALUMINIUM)

ARTHUR BERTON, Ltd. Manufacturers, 15 and 17 WORSHIP STREET, LONDON, E.C.

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SAMPLES AND QUOTATIONS ON APPLICATION

GAUZE TISSUE (AS GAMGEE) CAPSICUM

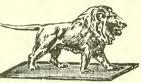
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MARK.

59 Gray's Inn Road, London, III.C.

May 22, 1914.

Proprietor:

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Having joined the Manufacturers' Section of the P.A.T.A., my wholesale prices have been revised. Below are the prices which came into effect on May 1. I trust that by trying to meet with the views of the Trade generally I shall also meet with your appreciation and support.

3 oz. (2/9 size) Minimum Retail. Per doz. net. 6 oz. (4/6 size) ... 2/6 ... 24/- ... 38 6

Minimum Retail. Per each net. 16 oz. (11/- size) ... 10/- ... 8/- 36 oz. (22/- size) ... 18/6 ... 14/10

Carriage Paid on orders over £2.



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It has come to our knowledge that many firms do not know that we keep Stock of all the Chief Selling Lines in our enormous Warehouse.

Please send for STOCK LIST of Kalis, Limes, Ovals, Cannons, Mexicans, Flats, Tinted Medicals, etc.

BOILING FLASKS, BEAKERS, TEST TUBES, EVAPORATING BASINS, DOUCHE LININGS, ETC.

AMPOULES, GLASS TUBES AND SYRINGES NOW BEING MADE FOR ALL THE LARGE USERS.

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ESTABLISHED 1865.

7 India Street, Crutched Friars, London, E.C.

supply GLASS BOTTLES, JARS, and TUBES

of every description; plain, cut, and stoppered

Direct from the Works.

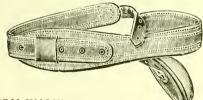
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## The "Hernicura."

"COMFORTABLE."

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#### YOU KNOW

how often you have trouble in fitting customers with trusses, and how frequently dissatisfaction is expressed.

#### TRY

the "Hernicura" Trusses. They are easy to fit, possess great adaptability, give absolute satisfaction, and yet are most reasonable in price.

A 33-inch Truss will adjust from 30 to 36 inches. Head is also adjustable.

All orders executed by return, including Specials and Re-covers.

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Specimens on Appre.

#### JOHN MORGAN DAVIS & SONS,

TRUSS & SURGICAL APPLIANCE MAKERS, 278 BISHOPSGATE, E.C.

## A Profitable Seller



"PORTIA"

(Regd.) NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price **11/6** 

Retail 1/6

dozen.

each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

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184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES:—Cums Arabic and Tragacanth as imported or finely powdered.—Dextrine, Camomiles, Honey. Waxes of all kinds for Boot Polishes, &c.

## TOBACCOS! CIGARS! CIGARETTES!

Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied. Opening orders a Speciality. Send for Price List.

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Write for our New Illustrated Catalogue, of 24 pages, of PILL MACHINERY, TABLET MACHINERY, COATERS, TINCTURE PRESSES, CORKING MACHINES, EMULSIFYING MACHINES, SUPPOSITORY MACHINES, PERCOLATORS, DRUG MILLS, SIFTING AND MIXING MACHINES.
Other Machinery for Manufacturing Druggists and Chemists.

BROCKLEY, LONDON, S.E.

Telephone: New Cross 1065

Send for Trade Price List of

## DENTISTRY MECHANICAL

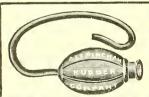
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Willow boxes, fancy tins, vulcanite fittings, rubber goods, druggists' bottles, tubes and china pots. Laboratory china and glassware, Baudruche & split skins, metal & fancy goods & druggists' sundries.

Inquiries esteemed for all lines used by the manufacturing trades for packing, &c., especially substitutes for German goods. Samples

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## SINGLE & DOUBLE SPRAY BELLOWS.

BUY ENGLISH GOODS.

The Altrincham Rubber Co., Mossburn Buildings, ALTRINCHAM. Telegrams—"Rubber Altrincham." Telephone—18! Altrincham.

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obtainable from

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Lightest and Whitest, also Purest Dense. APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens, LONDON, E.C. Telegrams: "LEYERMORE LONDON." Telephone: 4613 Central.

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OF ALL KINDS

Cheapest Makers of Co-efficient Acids and Fluids.

HENRY ELLISON, LTD., CLECKHEATON, YORKS

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CHARTERED PATENT AGENT.

PATENTS, TRADE MARKS AND DESIGNS.

THE
OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS,
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# First-Class

Reliable workmanship. Popular Prices. Moderate charges for Gold, D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M. Co. Teeth and Rubber guarante-d. Punctuality strictly observed. List free. Trial case solicted. Gold and D.A. work a speciality. Special cheap rates for showcase pieces. 18 years' experience of first-class mechanical dentistry.

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## GEORGE HAYNES & CO.,

Hampstead Cotton Mills, Stockport, MANUFACTURERS OF

BLEACHED AND ABSORBENT COTTON WOOLS, SURCEONS' AND HOSPITAL LINT, BANDAGES, &c. &c.

Five Gold Medals, Five Silver Medals, and Diploma of Honour. The Highest Awards given to any Cotton Wool or Lint Manufacturers. Telegraphic Address: "HAYNES STOCKPORT."

BEST ENGLISH MAKE.

Before placing your season's order for Hot Water Bottles please write for quotation to The GALEN MANFG. CO., Ltd., Wilson St., New Cross, London, S.E.



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(Mechanical).

EXPERT WORKMANSHIP. PROMPT SERVICE. POPULAR PRICES.

GUARANTEED MATERIALS. 'Dentistry for Chemists' post free. "Everyday Dentistry," 3/6.

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### "FINOT" CACHETS

(White or Coloured).
With inscriptions in any desired tint; also Plain or Embossed.

"Beautifully made, and the Inscriptions give them a distinction all their own."—C. & D.

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These Cachets are especially adapted for Headache, Neuralgia, and other powders CODPER, SDN & CD., Ltd., 8D Gloucester Road, SDUTH KENSINGTON. Also supplied to fit existing machines. In Ten Sizes.

> HAIR'S RING HOLBORN 1402 BRONCHI A LIQUID THE ONLY PERMANENT CURE. ROYAL PHYSICIAN'S ENDORSEMENT. NEW SIZES, 2/9 & 4/6, NOW ON SALE. Free supplies 48 pp. Treatises, with Photos, Showcards, etc., post free. B. W. HAIR & 30N, 90.91 High Holborn, London.

ZEPTO interferes with none of your Dental preparations. The pencil is used in conjunction with your own dentifrice. In addition therefore to being a smartly packed and profitable advertised line, it helps your own proprietaries. Send for special offer. Advertised 9d. P.A.T.A. 7\frac{1}{2}d. 4 6 dozen.

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FOR COLOURING GREY HAIR. This popular article is largely advertised and stocked by all Wholesale Houses.

TRIAL BOTTLES 6d. slze, supplied on pretty showcards.
4/- per doz.; 3/6 size, 28/- per doz.

WESTBOURNE GROVE, LONDON,

## DENTISTRY FOR DENTISTS

By A. J. FENTIMAN, Dentist (Fentiman & Co.)

actical Dentists in Gold, D.A., Tubes, Crowns, Gum Sections, Vulcanite, Celluloid, Strengthened Rubber, Reg. Cases (Angles'),
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Telephone: 9977 London Wall. Telegrams: "Lullingly London." Postal—East Smithfield, Tower Bridge. Established 1835.

NO OTHER ADDRESS.

Baines' Dielectric & Baines' Dielectric Emulsion

The newly discovered Dielectric Treatment for LOCAL PYREXIA in its various forms, including Pneumonia, Appendicitis, Neurius, Eheumatoid Arthritis, etc. The greatest medical discovery of a century. All danger to life removed within a single hour in Pneumonia, Appendicitis, etc. This remedy is unequalled for rapidity of ection in all forms of Local Pyrexia. Sold to the Medical Profession and Drug Trade only by DEIONS LTD., 220 Tower Bridge Road, London. Phone: Hop 335. Telegrams: Deionisers, Barra London. Barra, London.



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Contractors to His Majesty's Government. LEICESTER.

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- MANUFACTURERS OF -

Spread Plasters. Adhesive, Belladonna, Soap Cerate, Roborans, Fleshcolour Adhesive, &c.

Hospital Strapping. On Holland, Pure Stout Calico, &c.

Porous Plasters. All kinds. On Cotton Cloth, Red Felt, White Kid, &c.

Rubber Adhesive Plaster. On Cotton Cloth or Holland—In Tins or on Spools.

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Waterdressing, Fastedge, Calico, and Flannel Bandages, Elastic Web, Crêpe Velpeau, and Plaster of Paris Bandages.

THE LEICESTER "VARICO" LEG BANDAGE. TRADE MARK.

# May, Roberts' Traveller.

No. 4023 CITY.

MARCH 27, 1915.

LONDON & DUBLIN.

## ON DELUSIONS

Here and there on our books we have a customer who appears to labour under the delusion that the only things we sell are

## PATENT MEDICINES.

Now, we like selling Patent Medicines immensely, and accordingly we sell all we can; but we should be much gratified if we could disabuse the minds of certain, of our friends of the erroneous idea that this is the sole end and aim of our existence. There does not seem anything inherent in the nature of trading which prevents a firm who sell Patents from efficiently handling

# CHEMISTS' SUNDRIES AND PACKED COODS.

and, indeed, it is the common practice not only of the wholesale trade, but of the retailer himself.

Whence, therefore, comes this delusion, held fortunately by but a small minority of our customers, but by them most tenaciously.

One possible explanation lies in the fact that we do not send out travellers, and that "see before you buy" is a law of the Medes and Persians in relation to Sundries with these gentlemen.

Probably this conviction is the result of some unfortunate experience in the past, when they have been misled by some too generous catalogue description, and they have on the strength of this decided that all price lists are tarred with the same brush.

## ON REPUTATIONS

A firm Laving only one traveller to represent them to the whole of the Chemists in the Kingdom would be very careful in their choice of such a traveller, to obtain a man whose reputation would give weight to his recommendations.

Now, that is the position of

## MAY, ROBERTS'.

We have only one traveller, and that is our

## PRICE LIST,

and we have always been very careful that the descriptions and illustrations shall faithfully represent the goods we sell, with the result that the reputation of

## MAY, ROBERTS' TRAVELLER

with those who habitually buy from its pages is that it is as exhaustive, reliable, and as indispensable to a chemist as Bradshaw's Railway Guide is to its human prototype.

It has taken many years to build up this reputation, and our appreciation of its value to us is such that all orders received by us from Chemists for Sundries and Packed Goods carry with them the implied condition that if he is not satisfied with the goods on arrival he has full liberty to return them to us carriage forward.

## **OUR SHOWROOMS**

which contain examples of upwards of 20,000 articles which we list. will convince our visitors of the accuracy of our catalogue descriptions, and in the case of new customers of those who do not already buy their

# SUNDRIES AND-PACKED GOODS

from us, we are always willing to make an allowance towards travelling expenses in the event of their making a journey to town to see us.

By the way, Easter is upon us, and we shall be pleased to see any of

## OUR FRIENDS WHO INTEND TO VISIT LONDON,

May we send you a copy of

## MAY, ROBERTS' TRAVELLER

together with

## MARCH SUPPLEMENT.

which sets forth all the alterations in price and withdrawals due to the War.



# MAY, ROBERTS & CO., LTD. 7, 9 & 11 Clerkenwell Road, LONDON, E.C.

AND AT 16 WESTMORELAND STREET, DUBLIN.

# MIST&

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MARCH 27, 1915

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST SE PREPAID (except in the case of serial advertisers), and to ensure prompt insertien REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done
PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is the delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatify in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2017 Central (3 lines). Telegraphic Address: "Chemious Cannon London." (Three words counted as two.)

# EASTER HOLIDAYS

DVERTISEMENTS intended for next week's Supplement A (April 3) must be in the Publisher's hands not later than

## 2 p.m. on WEDNESDAY, MARCH 31.

All announcements received after the Supplement has gone to Press will be inserted in the following week's issue (April 10). The offices of "The Chemist and Druggist" will be closed from

## THURSDAY EVENING, APRIL 1, until TUESDAY MORNING, APRIL 6,

therefore all stamped addressed wrappers for the Supplement of April 3 should reach 42 Cannon Street, E.C., by Wednesday morning, March 31.

# CHEMISTS' TRANSFERS.

# Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

## May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

-HOME COUNTY (Few Miles Out) .- Light Retail, Dispensing, and Photographic Business; returns last year £1,510, which produced a net income of between £400 and £450; shop is nicely fitted and fully stocked; held on lease; price £950.

2.—LONDON, S.W.—Good-class Retail and Dispensing, situate in busy main thoroughfare; returns £1,420 at good prices; to effect a speedy transfer the sum of £800 will be accepted.

5.—LONDON, S.W. (Favourite Residential Locality).—Good-class Business, Retail and Dispensing; established many years; returns last year £1,287; net profit 25 per cent.; terms, valuation of stock and fixtures, and premium for goodwill to be arranged equitably.

4.—CHELSEA (Near).—Ready-money Business, situate in main thoroughfare; returns average £1,000, with net profit £300; price £750, less than the value of stock and fixtures.

5.—ESSEX.—Vendor retiring; Cash Retail Business, well situated in densely populated district; returns £700; net profit about £230; rent £33; price £260.

6.-LONDON, N.-Middle-class Business, Retail and Dispensing; main thoroughfare; returns £900; large double-fronted shop; price

-SUFFOLK (Death Vacancy) .- Old established Business, much neglected, capable of considerable extension; returns average about £900 yearly; roomy premises; rent £35; valuation of stock and fixtures only required; part payment. 8.—MANUFACTURING TOWN (North of England).—Cash Retail with excellent Optical conuection; returns show a steady increase, last year being £1,380; net profit £580; terms, valuation of stock and fixtures, and sum for goodwill to be arranged.

9.—SURREY.—High-class Dispensing and Retail, situate in charming district; returns, present rate, £1,600 at fair prices; modern fitted shop, excellent position; no immediate opposition; valuation terms entertained.

10.-YORKS (Large Town).-Good-class Retail and Dispensing usiness; returns £1,300 at fair prices; large house and garden; price £900.

11.—UNOPPOSED Business, Family, Retail, and Dispensing; long established; well-fitted shop and ample stock; net income £300, good house; an opportunity seldom met with.

12.—HANTS.—Retail Dispensing Business, with Photographie Sundries; returns £700; net profit £200; shop situate near station; no near opposition; price £450, about the value of stock and fixtures.

13.—SEASIDE (Within 30 Miles of London).—Rising Health Resort; returns about £800 present rate; modern trading: profits about £0 per cent.; capable of large development; very convenient house; price to be arranged equitably.

14.—EASTERN COUNTY (Death Vacancy).—Unopposed Mixed Country Retail Business; late owner held it upwards of 40 years; capital opening for young energetic man with small capital at command.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Aecount, by which means alone Profit, the value of Business, &c., ean bo determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the eause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

# BRETT &

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS. NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of Buyers on our books, and we can frequently find a purchaser at once. We also have a Private Register for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

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£780 returns.—SEASIDE, HANTS.—Good-sized double-fronted Shop; nice-class Retail; at valuation of stock and fixtures, about €400

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6430 rcturns.—SHEFFIELD.—Light Retail; no N.H.I.; plenty of scope for this; appointment brings in £60 per annum; valuation, about £300.

£450 returns.—LIVERPOOL.—Branch; thickly populated district; suitable man could do £20 per week; price £170.

We have cash Buyers for businesses from £500 to £5,000.

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MEGGESON & CO., LTI BARCLAY & SON, LTD.

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And at 174 VICTORIA ST., S.W., Ph C. Tel. No. Victoria 27.

And at 174 VICTORIA ST., S.W., Ph C. Tel. No. Victoria 27. DEATH Vacancy.—Handsome double-fronted modern Shop in residential district, N.W.; returning over £12 weekly under unsatisfactory management in very good class Dispensing and Family trade; price £275; good house, side entrance; 9 rooms; rent £100, of which half can be readily let.off.

VENDOR retiring on competency obtained solely from business now offered for sale on account of ill-health; returns under manager over £1,500; formerly over £2,000; scope for indefinite extension; large town South Wales; Welsh not necessary; value of stock and fixtures only, and part purchase money can remain; best position; personally inspected and recommended.

\_PROSPEROUS Business in Carmarthenshire returning over £2,500, including Gilbey's sole agency £850; N.H.I. £150; vendor, entering the medical profession, will accept first reasonable offer near the value of the stock and fixtures, about £1,000.

Valuations for any purpose promptly conducted at moderate prices.

## THOS.TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER. ESTABLISHED OVER HALF A CENTURY.
Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

**VALUERS & TRANSFER AGENTS.** \$5 Jewry Street, Fenchurch Street, City. Telephone: 1809 CENTRAL.

## NO CHARGE TO PURCHASERS.

1.—BUCKS.—Good Light Retail, Dispensing, and Prescribing Business, in pleasant market town; returns nearly £1,300; net profit £400; assistant kept; large house and garden; price £800.

2.—KENT COAST.—Good-class Retail, Dispensing, and Prescribing Business, in excellent position; returns £1,200; low rent; good house and Pharmacy, well stocked; price £550.

3.—CHESHIRE.—Light Family Retail and Dispensing Business, pleasantly situated; returns £1,000; not profit £300; good residence; handsomely fitted and well stocked; price £750.

4.—ESSEX (Popular Health Resort).—High-class Family Retail and Dispensing; returns average £16 weekly; good profits; plenty of scope; modern house and pharmacy; price £625, or offer.

5.—MIDDLESEX.—Good-class Family Retail and Dispensing Business, in best position, rapidly rising locality; returns over £1,500; handsome modern Pharmacy, fully stocked; price £1,050.

6.—LIVERPOOL.—Cash Retail, Dispensing, and Prescribing; in main thoroughfare; returns last year £940, increasing; large well-fitted shop, good stock; price £500.

7.—LONDON, N.W.—Sound middle-class Cash Retail Business; in good position; returns over £1,500; net profit nearly £500; books open to fullest investigation; own property; price £800.

6.—LONDON, S.W.—High-class Retail and Dispensing Business, in good residential suburb; returns £1.300, increasing; net profit £310; assistant kept; price about £900.

## STOCKTAKINGS.

We undertake stocktakings on a very low scale of commission or an agreed fixed fee, and also price out Chemists' own stocktakings. apply for our terms.

Businesses Wanted. Buyers Waiting.

## BUSINESSES FOR DISPOSAL.

3s 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BIRMINGHAM.—Old-established, well fitted and stocked Chemist's Shop; now carried on as branch; returns between £500 and £600; N.H.I. over 100 per week; every opportunity given for investigation; splendid opening for Dentistry; main and busy thoroughfare; price £170 or near offer. Apply, 4/15, Office of this Paper.

PRADFORD.—Old-established Light Retail Drug Business for Disposal at once; main thoroughfare, near Town Hall; reason, age; good opening for Panel. Particulars from "S. H.," 113 Bridge Street, Bradford.

DURHAM County.—Village Drug Store; present returns, under indifferent management, between £400 and £500; suit Lady Pharmacist; new colliery opening about two miles away; no opposition; owner has another business and cannot give the necessary attention; capable of good increase; no agents. 8/5, Office of this Paper.

EDINBURGH.—High-class old-established Pharmacy for Sale; main thoroughfare; modern fittings, electric light, etc.; valuable specialities and agencies included; good reasons for disposal. Apply T. Stephenson, 137 George Street, Edinburgh.

I ANCASHIRE.—Sound, well-established Business for Sale; best stand in a growing town, handy to Liverpool and Manchester; abundant scope for a younger proprietor; present trade £11 per week; convenient house; rent £40; price £225. Apply, "Senex": (4/29), Office of this Paper.

LANCASHIRE.—Business for Disposal, near Manehester; returns (meluding Insurance, between 8,000 and 9,000 per annum) about £950; net profit £325; books kept. Full particulars to genuine buyers on application to 5/20, Office of this Paper.

LANCASHIRE.—Seaside Cash trade; takings average £10 weekly, this year much above; good profits; few Patents; look-up; rent £27; fancy price not expected, merely valuation stock and fixtures, possibly about £150. "Exceptional" (6/29), Office of this Paper.

LIVERPOOL.—First class, old-established Family Dispensing Business for Sale in important suburb. Apply, Langton & MacConnal, 22 Lord Street, Liverpool.

L ONDON, E.—Well-fitted Shop in very populous neighhourhood: good living; splendid opening for Panel; no opposition; electric light; very low rent; fine house accommodation; all recently redecorated; cash required about £100. 9/5, Office of this Paper.

ONDON, S.W. (Flourishing Suburh).—Advertiser, wishing to devote full time to his West-End Business, offers suburban one for immediate Disposal; spacious Pharmacy, mahogany fatures, electric light; saleable and up-to-date stock; off panel; price £800; for keen speculators on war-sacrifice bargains "nothing doing." Apply, "Parti" (42/21), Office of this Paper.

COUTH WALES.—Chemist's and Wine and Spirit Dealer's Business for Sale; established nearly 40 years; takings nearly £2,500; excellent investment; profits good; scope for increase; terms to be settled by mutual agreement. Apply, 271/36, Office of this Paper.

EXCEPTIONAL opportunity for energetic Pharmacist with capital and first-class references to acquire gradually sound, old-established Business, busy country town near South Coast: turnover steadily increasing owing to town development; applicant in first instance would take control of Counter. All communications, in strict confidence, to "Phenol" (275/36), Office of this Paper.

FIRST-CLASS Light Retail Business for Sale in the Midlands; returns average £1,200 a year; rapidly increasing; good house and warehouse accommodation; good reasons for disposal. 49/8, Office of this Paper.

FOR Sale, Light Retail Business, situated in Northfleet; double-fronted shop; low rent and rates; good house; small garden: good N.H.I. connection; reason for disposal, inability of owner to look after same. Full particulars apply to G. P., 5 Dover Road, Northfleet.

FOR Sale, an old-established Business of a Chemist and Druggist at Shoeburyness, Essex, owing to death of proprietor. For full particulars apply to F. T. Fisher, Solicitor, 44 Alexandra Street, Southend-on-Sea.

GRAND Opportunity.—Owing to inability to get qualified help, for Disposal, Branch, busy Lancashire district; no near qualified opposition; doing £400, and 150 N.H.I. scrips a week; low rent; small, comfortable house; established 25 years; qualified owner, good living assured; £200; half can remain. 9/24, Office of this Paper.

OLD-ESTABLISHED Business in working-class neighbourhood for Disposal; price, stock and fixtures, by agreement; owner wishes to enlist. 209 Oldfield Road, Salford.

SPLENDID opportunity for young man; Mixed Country Business with Mineral Water Factory to be Sold as a going concern; good opening for Optics and Dentistry; returns £1,200; net profits £250; good house and garden; cheap rent. "Sunset" (4/17), Office of this Paper.

To Chemists and Druggists.—For immediate Sale, as current going, old-established Cash Business, with full Wine Licence, situate on main thoroughfare in populous district near Newcastle-upon-Tyne; stock at cost, about £250; fixtures and goodwill as may he arranged. For full particulars and appointment to inspect apply to Joy, Price & Co., Accountants, Post Office Chambers, Newcastle-upon-Tyne.

£80.-Kent.—Unopposed; death vacancy; Betail and Prescribing Business; present returns £7 to £8 weekly, besides over 200 panel scrips weekly; £80 will purchase it, much less than valuation; a good living assured. Apply, Berdoe & Fish, Valuers, 35 Jewry Street, Fenchurch Street, E.C.

\$\mathbb{\psi}500\$ will buy Wholesale and Retail Drug Stores in Laneashire eotton town; returns, despite war, over \$250 a week under unqualified; easily increased; easy rent; established 20 years, same hands; nicely fitted, and one of best stocks in the trade; good reasons. Apply "Laneashire" (9/22), Office of this Paper.

## BUSINESSES WANTED.

PHARMACIST desires to purchase for each sound Chemist's Business showing net profit about £300; neglected business in busy thoroughfare not objected to; London or North preferred. "Roscoe," Stanhope Avenue, Finchley, N.

WANTED to purchase, small Wholesale or Drysaltery Business; this Paper.

## AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in ac case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

COMMERCIAL Traveller, with a large and personal connection over England, Scotland, and S. Wales, in the principal towns, with the hest Chemists and Stores, is open to consider an Agency; 20 years on the ground. 8,34, Office of this Paper.

THE William Drug Co., Ltd., Bombay, desire to open negotiations with a firm of Chemists and Druggists who will undertake to execute their orders: substantial turnover guaranteed. Correspondence should be addressed to the London Office, 107 Bishopsgate, E.C.

WANTED, Side-line or Agency; Traveller, resident Briste, covering all West and Mid. of England representing one house, open to work well another Agency or Proprietary Article on commission basis with present one. "Devon" (266/1), Office of this Paper.

WANTED, Agencies or Representation for the East by a qualified Chemist, late resident in Malay States and Straits Sottlements (speaking native language), for Chemicals, Drugs, and Sundries; expenses to be shared. "Tidapa," 9 Streatham Bill, S.W.

## FOR SALE.

REAL Bargain.—Cash Till for Sale; well-known make; perfect; suit busy shop. Write, H. Gold, 22 Ash Street, New Kent Road, S.E.

## TO LET.

HOUSE and Shop, or Shop only, Derwent Street, Blackhill, Co. Durham; suitable for Chemist; no Chemist in the town; population 5,000 or 6,000. For full particulars apply to S. Lowes, Butcher, Park Road, Blackhill.

## APPRENTICESHIPS.

A PPRENTICESHIP required for youth aged 16; outdoors; West London preferred; passed Preliminary; best references. Greene, 41 Frithville Gardens, Uxbridge Road, W.

WANTED, Apprentice: well educated and passed Preliminary; if indoors small premium, which will be returned in wages; outdoors no premium. Weston, Pharmaeist, Runcorn, Cheshire.

## PARTNERSHIPS.

A DVERTISER, first-class manufacturing experience, desires, shortly, position of trust or Partnership in Drug, Essential oil and Essences, or allied husiness; would invest £1,000. 9/34, Office of this Paper.

A N old-established London firm, doing business with Chemists in Druggists' Sundries and Surgical Dressings, desires to combine with another similar London house. Apply, 47/10, Office of this Paper.

WANTED, Partner for growing business in popular Lancashire seaside town, view to purchase outright; one able to invest £250 to £300, balance according to arrangements; will hear every investigation. Apply, in confidence, to 6/8, Office of this back.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6c. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 604

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## RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hard-ship to the sender. All personal documents should be returned as promptly as possible after perusal.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

## RETAIL.

A NCOATS Hospital, Mill Street, Manchester.—Dispenser (Minor qualification) wanted at once to take full charge of Dispensary Department in this Hospital; previous Hospital experience preferred. Applications, stating age, qualifications, salary required, experience, etc., to be forwarded to the Secretary at the Hospital.

BEACONSFIELD.—Assistant wanted for a Dispensing business, with some Photographic; hours 8.50 to 7.30; alternate evenings 9.50; outdoors. State height, age, and usual particulars, and send photograph to Mr. R. W. Brooke, Chemist, Beaconsfield.

BECKENHAM, KENT (S.E.).—Qualified Assistant; Dispensing and Light Retail; indoors. Apply, Barnes & Jones,

DIRMINGHAM.—Junior Assistant in Light Retail and Dispensing business for Brauch; with or without time for study. Send full particulars and photo to Charles Thompson, Pharmaceutical Chemist, Sparkbrook, Birmingham.

BIRMINGHAM.—Assistant; unqualified; good Window-dresser and Counterman, and eapable of taking charge when necessary; permanency for right man. Send full particulars, salary required; references, and photo (if possible), which will be returned, H. T. Hall, M.P.S., Chemist, Selly Park, Birmingham.

BIRMINGHAM.—Junior about 21; outdoors; good Counterman and neat and reliable Dispenser necessary; required about the middle of April; state salary and references. Rushton, Pharmacist, Hall Green, Birmingham.

BIRMINGHAM.—Assistant; unqualified; capable; experienced; pleasant, easy borth; Counter and Dispensing. Apply, by letter, 7/19, Office of this Paper.

BRISTOL.—Manager, Minor qualification, for Branch (rooms over shop); Light Retail and N.H.I.; hours very moderate; assistant kept; splendid chance for capable man; elderly man not objected to. State age, height, salary, married or single, experience, references, photo (returnable) to Hedley Price, Chemist, Ashton Gate, Bristol.

RISTOL.—Young qualified Assistant wanted; Dispensing (good class); easy position; comfortable home; very little N.H.I. References and salary asked to Edward Maish, Cotham Brow, Bristol.

CAMBORNE.—A competent, reliable Assistant wanted at once for good-class Light Retail business; N.H.I. Dispensing. State age, experience, salary required (outdoors), and send photo with references to Baldwin H. Jenkin, The Central Pharmacy, Camborne.

CARDIFF.—Junior Assistant required; Light Retail and Dispensing; short hours; good salary. Apply, Prosser & Co., Chemists, 14 Broadway, Roath, Cardiff.

CHESTER.—Wanted, Assistant. Send usual particulars in full to Milling-Johnson, Ltd., Chester.

COVENTRY.—Assistant wanted after Easter; Dispensing and Counter alternate weeks; also Junior for Branch. State age, experience, salary required (outdoors), references, Bird, Chemist, Spon Street.

DARLINGTON.—Assistant required; abstainer preferred. Apply, stating age, height, experience (if qualified), and salary required, to Waters, Chemist, Darlington.

DONCASTER.—An unqualified Assistant required, after Easter, for good-class business; outdoors. Apply, with full partienlars of experience, stating age and salary required, to Walter E. Plant, Pharmaccutical Chemist, 28 High Street, Doncaster.

POLKESTONE.—Senior Assistant wanted for Dispensing business; quarters provided. Apply, stating age, salary required, and previous experience, to J. W. Stainer, Pharmaceutical Chemist, Folkestone.

CILLINGHAM.—An outdoor Junior or Improver with a knowledge of Dispensing and Photography; a lady with Apother earlies' Hall certificate not objected to; state snlary required. Also an outdoor Apprentice. Apply, A. Stooke, Chemist, Gillingham. Kent.

CLOUCESTER.—Wanted, by Easter week, Assistant (outdoors) for Retail and Dispensing: medium-class business. Apply, with usual particulars, to W. Marchant, Chemist and Optician, 209 Barton Street, Gloucester.

GODALMING.—Junior required for Dispensing Counter; qualified preferred; outdoors. Mather, Pharmacist.

CRAVESEND Hospital, Kent.—A lady Dispenser is required to do one week's "Locum" work at the above Hospital (with emergency War beds, 100 beds) from Friday, April 2. Apply to the Secretary at once.

HALIFAX.—Required, smart Assistant; must be good Counterman and Window-dresser; one accustomed to Store business and having some knowledge of Photography preferred; outdoors; no duty. Apply, stating age, height, experience, and salary required, to Taylors (Northern), Ltd., 4 Crown Street.

## TO SAVE TROUBLE.

MANY correspondents a swering advertisements in this Snpplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

## ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your sub-ableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials act before him. HARROGATE.—Wanted, Assistant, physically unfit for active service, with Dispensing experience; six months' engagement; ontdoors; good salary to suitable man. Windemer, Royal Parade, Harregato.

HULL.—Junior Assistant wanted, about 20, indoors, in good-class age, height, salary required, and references to Metealfe & Son, Pharmacists, Hull.

LEICESTER.—Competent unqualified Assistant required; must be a good Counterman and Dispenser. Please state particulars of experience, references, age, height, salary required, and enclose photo (will be returned), Berridge, Ltd., Chemists, Leicester.

LEICESTER.—Unqualified Assistant; N.H.I. Dispensing and Window-dressing, etc.; working-class district; married preferred. Apply, with references and full porticulars, to Butlers, 51 Sanvey Gate, Leicester.

LIVERPOOL.—Qualified Assistant; outdoors; quiek Counterman essential; no Insurance work. Particulars to R. & J. Herman, Pharmacists, Colonial House, Liverpool.

I IVERPOOL.—Wanted early in April, an Assistant for gooddelass Dispensing business; near Liverpool School of Pharmacy; indoors. Please apply to Anthony S. Buck, 179 Bedford Street, Liverpool.

IVERPOOL.—Junior Assistant (outdoors), unqualified, for goodolass Retail and Dispensing business; no Insurance work; no Sunday duty; near Liverpool School of Pharmacy. State age, height, experience, salary required, photo (to be returned), 7/36, Office of this Paper.

LIVERPOOL.—Wanted, a smart qualified Assistant to Manage Pharmacy in good position; permanency, with good prospects; commencing salary £175 to £200. Apply, 49/35, Office of this Paper.

LANDUDNO.—Assistant required immediately; outdoors; Retail and Dispensing, with Photography. Apply, stating usual particulars, salary, etc., photo, T. Esmor Hooson, Ltd.

LONDON (Golder's Green).—Smart Junior Assistant required; would suit young man just out of apprenticeship. State age, salary required, and when at liberty to commence, 4/206, Office of this Paper.

LONDON.—Manager required for profitable business in a work-ing-class neighbourhood; liberal interest in the profits offered to an energetic and reliable man. 4/26, Office of this Paper.

LONDON, Central.—Outdoors; Junior Assistant for Dispensing and to assist at Counter; several kept; good opportunity of learning Continental Pharmacy; some knowledge of French an advantage. Give full particulars of expérience, salary required, etc., Frizell & Co., 1 Cranbourn Street, Leicester Square, W.C.

LONDON.—Wanted, qualified Manager-Assistant; elderly not objected to; single; indoors; no Panel work; good-class Dispensing and Retail business. Salary, age, photo, and experience to "Salol," e/o Horner & Son, 14 Tower Hill, E.C.

L ONDON, N.—Assistant wanted for working-class district; quick Cash trade; good prospect to suitable man. State usual particulars, wages required, etc., to "B. S." (6/3), Office of this Paper.

LONDON, N.E.—£2; unqualified Junior for good-class Suburban Brauch (photo Sanger's price list); good Counterman and Dispenser essential. Usual particulars and photo (if possible) to Mutthews & Son, Pharmacists, 722 High Road, Leytonstone.

L CNDON, S.E.—Assistant, qualified (indoors), for a Light Retail and Dispensing business; good salary and comfortable home. 8/11, Office of this Paper.

I ONDON, S.E.—Unqualified Manager for small Branch; outdoors; no Sanday, duty; hours moderate. Apply to "Cinchona" (8/22), Office of this Paper.

LONDON, S.E.—Wanted, capable Manager, qualified, to take abstainer preferred. Write, stating salary required and all particulars, to 9/35, Office of this Paper.

L ONDON, S.W.—Required, a Dispenser holding the Minor qualification; hours of work approximately 8.45 to 6 o'clock; salary to commence 50s. per week; outdoors; no Sunday duty; 14 days' annual vacation. Write, giving full particulars, to 1583, Sells' Advertising Offices, Fleet Street, E.C.

ONDON, S.W.—Required, in a large West-End establishment, an Assistant for the Counter, of gentlemanly appearance and good address. Write 1584, Sells Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Assistant, not over 30; also Lady for Dispensing; one who-could make herself acquainted with Counter work. 9/1, Office of this Paper.

LONDON, S.W.—Capable Assistant for Dispensing Counter; outdoors; three kept; Suuday duty, every third, 6 to 8 p.m.; good salary to capable man. 8/39, Office of this Paper.

LONDON, S.W.-Wanted, qualified Assistant, about 25 years of age. Apply, with full particulars, to Amoore & Co., 173 Sloano Street, S.W.

LONDON, S.W.—Assistant wanted; quick and accurate Dispenser; qualified preferred. Apply, with usual particulars, to Tupholme & Son, 1 Colcherne Terrace, Earl's Court, S.W.

LONDON, S.W.—Wanted, an Assistant who has had good Dispensing experience for the Dispensing Counter; outdoors Particulars to Williams & Elvey, 8 West Halkin Street, Belgrave Square, S.W.

ONDON, S.W. (Brixton Hill).—J. B. Frank & Co. require, about I middle of April, smart unqualified Assistant; outdoors; quick Dispenser with knowledge of Photography; comfortable berth and salary to suitable man for good middle-class suburban Dispensing business. Apply, stating salary required, to 111 Brixton Hill, S.W.

LONDON, W.—Wanted at once, a smart Assistant for a brisk Retail and Dispensing business; good Dispensing experience essential. Please write (or call), with the usual particulars and salary expected, to C. E. Wickham, 298 Harrow Road, W.

CONDON, W.—Junior Assistant required (outdoors) for goedelass 'Dispensing business; hours 8.30 to 8; no late duty; Sunday duty nominal; or Part-time Assistant for three days weekly from about 2 to 8. Apply, giving usual particulars and enclosing photo, to W. Ive, 221 High Street, Kensington, W.

London, W.C.—Junior Assistant at once; must be good Distranspar and smart Salesman; good address and appearance essential. F. G. Curtis & Sons, Chemists, 20 Bury Street (opposite British Museum).

I ONDON (West End).—Immediately, a qualified Junior for first-class business; must be thoroughly well up in Disponsing. Apply, giving full details of experience, salary required (outdoors), etc., to 10/9, Office of this Paper.

MALVERN.—Married or single qualified Assistant for good-class Dispensing business; outdoors. Pleaso give full particular-in first instance, stating salary required and when disengaged, and enclose photo if convenient, A. E. Baylis, Chemist, Great Malvern.

MANCHESTER.—Junior Assistant or Part-time Assistant. Apply J. C. Kidd, 551 Cheetham Hill Road, Manchester.

MANCHESTER.—Messrs. Blain & Hankinson (formerly Woolley's), 69 Market Street, require a Junior qualified Assistant; short hours; no Sunday duty.

MANCHESTER.—Elderly qualified Assistant required immediately; Salford district; permanency; easy hours; state salary required. 4/260, Office of this Paper.

MANCHESTER.—Wauted, qualified Assistant for brisk business; must be willing and reliable. Apply, giving full particulars as to experience, salary required, and sending photo if possible to "Chemieus," e,o J. Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

ANCHESTER.—Locum required for every Thursday evening 6 to 10, and Saturday 2 to 11 p.m. Apply S. Matz, 341 Cheetham Hill Road.

MANCHESTER.—Mottershead & Co., 7 Exchange Street, have a vacancy for a second Dispenser who has been accustomed to a high-class business; no Sunday duty or Insurance work. State in full experience, age, and salary expected.

MARGATE.—Qualified Branch Manager for permanency; competent and trustworthy; about 30; for good-class Retail and Dispensing business; full particulars of last two engagements, age, height, and photo if possible, state salary (unfurnished rooms on premises); also unqualified Junior (outdoors). W. M. Rosser, Baily & Co., 2 Ethelbert Terrace, Margato.

NEAR Manchester.—Wanted, unqualified Assistant; outdoors; must be good Dispenser and Counterman. Full particulars and wages required to McKinlay, Chemist, Glossop.

PENZANCE.—A capable Assistant for good-class Retail with Photography; outdoors. Usual particulars to H. H. Cannon, Pharmacist, Penzance.

THE INSURANCE COMMITTEE FOR THE COUNTY OF DURHAM.

EXAMINATION OF ACCOUNTS FOR DRUGS AND APPLIANCES.

THE Insurance Committee for the County of Durham invite appli-

THE Insurance Committee for the County of Durham invite applications for the appointment of a Superintendent in connection with the checking and statistical analysis of accounts and prescriptions for Drugs and Appliances.

The gentieman appointed must have had practical experience as a qualified Pharmacist. He will be required to act under the general direction of the Secretary, and to supervise the work and be responsible for its efficiency to the Drug Accounts Sub-Committee. He must devote his whole time to the duties of the office. The salary will be at the rate of £200 per annum, and the appointment will be subject to one month's notice on either side. Applications, on forms to be obtained by sending a stamped addersed foolscap envelope, must be received not later than Saturday, the 3rd April, 1915.

Canvassing members of the Committee, either directly or indirectly, will be a disqualification.

EDWIN POTTS,

Clerk to the Committee.

County Insurance Office, 20 New Elvet, Durham, March 1915.

DONTEFRACT.—Young unqualified Assiztant wanted for quick Counter and N.H.I. Dispensing business: permanency and good progressive salary to suitable man; to start after Easter; ledgings are very reasonable in this district. Full particulars of salary required and references to A. Collins, Chemist, Pontefract, Yockshire.

T. LEONARDS-ON-SEA.—Assistant wanted (indoors) for Light Retail and Despensing. State age, height, references, and salary required, enclosing photo, to T. W. Jones, 55 Bohemia Road, St. Leonards on Sea.

ALTBURN-BY-THE-SEA.—Wanted, qualified Manager, single (outdoors), for good-class Retail and Dispensing business. Write, stating references, age, and salary required, to W. C. C. Taylor, Chemist, Dewsbury Road, Leeds.

OUTH Coast.—Immediate, smart Junior; outdoors; one just finished apprenticeship would suit. Apply, stating salary, to Sussex" (1/13), Office of this Paper.

TAFFORD.—Wanted, Assistant (outdoors) for good-class Family, Dispensing, and Optical business; hours light. State aggs, salary, experience, and enclose photo, J. Marson & Son;

STAFFORDSHIRE.—Qualified Chemist to Manage Light Retail business, with National Insurance Dispensing; easy hours; no night or Sunday duty. Send details, age, experience, and select required, in first letter, 7/8, Office of this Paper.

WARWICK.—Required shortly, a gentlemanly and oblig-ing Assistant for good-class Dispensing and Light Retail, with Photographic (no developing or printing). Please state age, height, and salary required, and give references, to H. R. Croasdale, The Pharmaey, Warwick.

WORTHING.—Assistant wanted, good Dispenser. Send particulars, with references, to W. Aston, Pharmaceutical

YORK.—Wanted, Junior or Improver (outdoors) for good-class business; some Photographic knowledge desirable. Apply, giving full details of age, height, references, and salary required, and enclose carte (to be returned), to C. M. Brown, Chemist, Brown's Drug Co., High Ousegate, York.

YORKSHIRE (West Riding).—Unqualified Junior required for progressive business; permanency with excellent prospects; state when at liberty. 4/026, Office of this Paper.

A COMPETENT Assistant wanted for good-class Light Retail and Dispensing business; hours 8.30 to 7.30; alternate evenings 9.30; outdoors. Apply, stating salary required and full usual particulars, to Palmer, Pharmacist, Oxford.

A FTER Easter, Junior Assistant; one with experience of N.H.I. Osly), giving full particulars as to experience, names of references, when discugaged, and salary required (in or out-doors), "Chemist," 115A Stoke Newington Road, London, N.

A N Assistant for a good-class Country Dispensing business; unmarried; outdoors. State salary, experience, etc. (no Sunday daty), F. Fresson, Pharmaeist, Stevenage, Herts.

A NDERSON & VIRGO, Worcester, require a competent Assistant, chiefly for Dispensing. Give particulars as to experience, age, height, references, salary required, and enclose photo.

A SSISTANT required, experienced; comfortable permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

A SSISTANT or Junior; outdoors; West of England; good-class seaside business; easy hours and conditions; Photographic experience essential. References and salary required to Deller's, Chemists, Paignton.

A SSISTANT wanted (at once) for good-class business; abstainer preferred; hours 8 to 7.30, Wednesdays 1, Saturdays 9; no Sunday or holiday duty. State age, height, experience, salary required (outdoors), when disengaged, and enclose photo if possible, C. Polgreen, Andover, Hants.

A SSISTANT wanted; good Dispenser; knowledge of Photography. Crawford, Chemist, Horley, Surrey.

A SSISTANT wanted; unqualified; Dispensing experience; knowledge of Photography; outdoors. Apply, Robert E. Pearce, 24 Bank Street, Newquay.

A SSISTANT (qualified) wanted immediately; outdoors. Apply, Spink, 27 Tottenham Court Road, W.

A I once, good Assistant, about 40, for good class business, West of England; salary £2; hours Monday, Tuesday, 8 to 8; Wednesday, 7; Thursday, 1; Friday, 8.30; Saturday, 9.30; no Sunday duty. Newton & Co., Yeovil.

A T once, wanted, a competent Assistant for Dispensing and the Counter in good-class Family business. Apply, personally or by letter, to A. & H. Bailey, 64 High Street, Highgate, N.

BRADY & MARTIN, LTD., 29 Mosley Street, Newcastle-on-Tyne, require, early in April, qualified Junior Assistant for the Dispensing and Retail Counter; accustomed to high-class business; indoors. Applicants please give full particulars of age, salary, when disengaged, and enclose photo.

CAPABLE Assistant wauted; good Counterman and Dispenser; qualified or otherwise; suit elderly man. Particulars, references, etc. (not copies), salary expected (outdoors), Henry Tinker, The Heights, Manchester.

CHAS. H. WELTON requires at once the services of a smart Assistant, possessing first-class Dispensing and Counter ex-perience; Optics an advantage. Apply 60 Smithford Street, Coventry.

HEMISTS .- Smart, young, qualified men, accustomed to quick cash trade, required for branches in the North of England. Please state salary required, references, experience, and when disengaged. "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

DISPENSER wanted at once, 3.30 to 9 daily (Sundays excepted), for Doctor in S.E. district near Lewisham. Apply, stating age, experience, and salary required, to "Doctor" (4/9), Office of this Paper.

DISPENSER wanted for Medical Practice in East End; work light; must be abstainer. 5/36, Office of this Paper.

DISPENSER.—A qualified woman Dispenser is required at once in a London office, to examine and scrutinise National Health Insurance Prescriptions. Applications, stating age, qualifications, experience, and salary required, should be forwarded at once to 8/40, Office of this Paper.

DISPENSER (qualified) required at once. Apply by letter, stating full particulars of experience, to Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

DISPENSER BOOKKEEPER required. Send photo, quoting salary, to "Dr.," 170 Powis Street, Woolwich, S.E.

PEMALE Clerks.—A number of qualified Drug Account Clerks are required in London for Pricing and Examination of National Insurance Prescriptions; Hours 9 to 5; wages 25s. to 30s. weekly. Apply, giving particulars of age, qualification, and experience, to 50/28, Office of this Paper.

IMPROVER or Junior for good-class and Mixed country business. Please state age, height, experience, etc., salary required (outdoors), to Horrocks, Chemists, Knutsford.

JUNIOR Assistant wanted at once; no Snnday duty and half-holiday weekly. Apply, with full particulars as to age, salary, and reference, to Inues & Son, Chemists, Stalybridge.

JUNIOR Assistant for good-class Cash business in busy Staffordshire town; short hours and no Sunday work. Apply, with full particulars as to age, experience, and salary required, to 7/08, Office of this Paper.

JUNIOR Assistant with experience in Dispensing; outdoors. State ago, salary, references, S. P. Sayers, Chemist, Hendon.

JUNIOR seeking an outdoor berth in a good-class Retail and Dispensing business, with easy hours and no Sunday duty, should write, stating age, experience, salary, and references, to G. A. Johnson, Pharmacist, Stamford.

JUNIOR Assistant wanted for Connter; outdoors; permanently. State age, references, wages, etc., to Manager, Junior Army and Navy Stores, Ltd., Aldershot.

JUNIOR Assistant wanted; Drug Department, Photography; no Dispensing; moderate honrs; no Sunday duty. State salary required (ontdoors), Burgis & Colbourne, Ltd., Leamington.

ADY Assistant wanted for Chemist's business. Give full particulars and salary required (outdoors) to Walter Marchant, High Town, Hereford.

ADY Dispenser wanted in good-class business; ensy hours; suit student. State age, height, reference, safary required (outdoors), and when disengaged, to "South Coast Pharmacist" (8'38), Office of this Paper.

MANAGER (elderly) for small Retail business and N.H.I. Disponsing; married. Send age, experience, and references to Paterson, 5 Woodville Terrace, Gravesend.

MANAGER (qualified) at once; permanency; easy berth; suit elderly man. Apply, with full particulars of age, salary, etc., "R. J. F.," e'o Woolleys, Ltd., Manchester.

MANAGER for Brunch, or with view to purchase entertained, in North London suburb; knowledge of Photography; sole charge. State age and experience, with references and when disengaged, also salary expected (house, rates, etc., free), "X" (8, 26), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmaoist as Manager; not eligible for military service; easy honrs; good and progressive salary, with excellent prospects.

PART-TIME man wanted, two hours nightly, Dispensing and Counter; suit student living in North London, or man wanting night work. H. Temperton, Pharmacist, Bush Hill Park, Enfield.

PART-TIME Assistant (unqualified) at once in busy N.H.I. district, several evenings per week from 6 o'clock. Apply, T. T. Leighton & Co., 565 Lea Bridge Road, Leyton.

QUALIFIED elderly Cover to live on premises; light duties; no N.H.I. Dispensing. Apply 20 Chapel Street, Islington, N.

QUALIFIED Assistant; outdoors; age 23 or over; state age, height, experience, salary required, and enclose photo; also qualified Senior, about 50; single; indoors. Apply, with particulars, as nbove, to "Caleinm," c/o Meggeson & Co., Miles Lane, Cannon Street, E.C.

QUALIFIED Manager, salary £3 38;; also an unqualified Assistant. Apply, G. M. Sleggs, Chemist, 1 St. Domingo Vale, Liverpool.

QUALIFIED Manager for N.H.I. Dispensing; salary £3 per week; must be accurate and quick Dispenser; permanent; good-references required; Walworth district. Apply, E. F. Wilson, 32 Norfolk Road, Seven Kings.

QUALIFIED Manager for quick business in the North; able to invest small amount or view to purchase; Optics an advantage; fullest particulars, age, references, etc.; interview. 5/16, office of this Paper.

QUALIFIED Assistant wanted; good wage to first-class man. State particulars to Newtons, The Pharmaey, Royton, near

QUALIFIED Manager for high-class South Coast Pharmacy run on Drng Stores principles; must be smart Salesman, Wiudowdresser, and progressive business man; salary 65s. per week; commission on profits, bonns on inercased overturn. State age, height, full experience, when disengaged (application treated in confidence), Lion Drng Stores, Queen's Road, Brighton.

QUALIFIED Assistant (married) required to live over shop and take charge of first-class country Retail and Dispensing. State full particulars, salary required, and when disengaged, Rednall, Wokingham, Berks.

QUALIFIED Assistant (Junior); must have had good Dispensing experience. Apply, giving full particulars, to "A. J. B. C.," Cooper, Son & Co., Ltd., 80 Gloucester Road; London, S.W.

 $R^{\,\mathrm{ELIABLE}}$  Assistant wanted; unqualified; outdoors; no Sunday duty. Give full particulars of experience, and state salary required, to J. A. Moore, Chemist, Grimsby.

REQUIRED, a Lady Dispenser, holding the Minor qualification; hours of business approximately 8.45 to 6 o'clock. Write, giving full particulars of past experience, to 1582, Sell's Advertising Offices, Fleet Street, E.C.

SEASIDE.—Assistant (outdoors) for good-class Dispensing business. Send full particulars and photo, Wing, 8 Bonlevard, Weston-super-Marc.

Dispensing business. Apply, R. A. Robinson (Malden & Co.), 205 Brompton Road, London, and Miller & Co., 42 Mount Ephraim, Tunbridge Wells.

SELFRIDGE & CO., LTD., require the services of a young lady to assist in the preparation of Toilet Specialities; must have had previous experience in a similar oapacity; good salary paid. Apply, Record Office, Sclfridgo & Co., Ltd., Oxford Street, W.

STEELE & MARSH, Chemists, Bath, require a smart Junior Assistant; unqualified; used to good-class business; ontdoors. Apply, David A. Evans, 6 Milsom Street, Bath.

UNQUALIFIED Second Hand wanted; Stock and Connter work, and honrs easy; age about 40; starting salary 35s. week (outdoors). Send cepies of references and photo with first letter; "Cardiff" (4/18), Office of this Paper.

UNQUALIFIED Junior for good middle-class Retail and Dispensing business; indoors; wanted at once if possible. Send full particulars, Savage & Co., Pharmaceutical Chemists, Brighton.

UNQUALIFIED Assistant wanted; knowledge of Photography; easy hours; seaside. Apply, stating age, height, salary required (either indoors or ontdoors), to A. Shand & Co., Chemists, Budleigh Salterton, Devon.

UNQUALIFIED Assistant, experienced, to live indoors, wanted April 10. Apply, with references, to FitzHngh & Carr. Nottingham.

UNQUALIFIED, with good experience, required; middle-aged man not objected to. Apply, Lewis & Burrows, 146 Holborn Bars, E.C.

UNQUALIFIED Assistant; good reference essential; hours casy. Roper, Elrington, Street, Plymouth.

UNQUALIFIED Assistant or Junior for small Branch; no Dispensing. Hatley, 95 Vicarage Lane, Stratford, E.

W. CHAS. SAYERS, 63 High Street, Lewisham, S.E., requires an Assistant; outdoors; permanency. Pleaso send full particulars with application.

WANTED at once, qualified Assistant. Full particulars, Hall & Son, Luton.

WANTED, reliable Looum for Half-day Thnrsday and alternate Sunday duty. Sangster, College Crescent, Hampstead.

WANTED at once, qualified Assistant. State age, experience, and all particulars to Walker & Harris, Ltd., Sun Street, Canterbury.

WANTED immediately, competent Assistant; one requiring permanency preferred; good salary. Apply, with photo, W. T. Stephenson, 3I High Street, Sutton, Surrey.

WANTED, an Assistant (outdoors), principally for Dispensing, apprenticeship with a Pharmacist preferred. Apply, with full particulars, F. J. Gibson, Pharmacist, Wolverhampton.

WANTED, early in April, qualified Junior Assistant; indoors; accentomed to good-class Dispensing. Usual particulars, with photo, to Collins, Woodhall Spa, Lines.

WANTED, young man, with or without capital, to take chargo of small country business with view to sneecssion on casy terms; no near opposition; exceptionally low rent; only wants strict attention. For further particulars write Hellebore, 76 Chiswell Street, E.C.

WANTED immediately, a smart unqualified Assistant for goodelass Dispensing business; also a competent Lady Dispenser; no Sunday duty. Apply, with full particulars, to Rutter, Chemist, Scaforth, Liverpool.

WANTED, help for two or three weeks; chiefly Dispensing (during absence of Assistant); Junior, if good Dispenser, would suit; lady not objected to. All particulars in first letter, Weston, Pharmaeit, Runeorn.

WANTED, a young man to make himself generally useful in Dispensary; one with previous experience of Drug trade preferred. Apply, stating wages required, to "Pharmacist," West London Hospital, Hammersmith, W.

WANTED, in the City, a young Junior having had apprenticeship in good-class business; outdoors; no Sunday, night, or holiday duty. Apply to E. D. Foster, 56 Bishopsgate, London, E.C.

WANTED, early in April, a competent reliable Assistant, qualified preferred, for good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace, W.

WANTED, Dispenser-Bookkeeper Surgery Assistant in good general medical practice in London suburb. Send photo and full particulars, 6/1, Office of this Paper.

WANTED, qualified Assistant, experienced and good Salesman, to sleep indoors; separate sitting room; board out. Apply, if by letter enclose photo (to be returned), or personally to R. S. Starkie, 126 Strand.

WANTED, an unqualified Assistant. State age, salary required (outdoors), Clare & Hunt, Scarborough.

WILLIAM DOBBIN & CO., LTD., Chemists, Opticians, and Photographic Dealers, Belfast, require a young, euergetic man as Manager for a very extensive and old-established Retail business; must have a thorough knowledge of the Drug and Sundry business and be competent to buy and to take full control; this is an excellent position for a man of thorough capacity, well up in Wiudow-displays, and able to develop business on profitable lines; undeniable references necessary. Please give full particulars, in confidence, and state salary required.

Young qualified Assistant wanted for Channel Islands; competent take charge; photo knewledge; full particulars, age, height, experience, salary, etc.; abstainer preferred. 9/26, Office of this Paper.

 $40^{\rm S.}$  to 45s. per week (outdoors).—Wanted, an Assistant at once, good Salesman and Window-dresser, for London Store business. Full particulars as to age, experience, references, and when disengaged to "Chemist" (50/41), Office of this Paper.

## WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LONDON firm, with large output of Toilets and Proprietaries, have a vacancy in manufacturing department for a young fellow; applicants should have had actual Laboratory experience and be accustomed to handling Drugs and Chemicals. State fully past experience, age, and salary required to 9/36, Office of this Paper.

A FIRM doing large business in Toilet Articles, Packed Drugs, Carded Goods, etc., is open for Representatives on the following grounds: Yorkshire, Laneashire, North and Central Wales; a substantial commissiou paid or arrangements possibly made ou salary and commission basis. Replies will be treated with confidence, and should be addressed to 48/34, Office of this Paper.

A NALYST.—Junior Analyst wanted for Manufacturers' Laboratory; experience in Alcohol estimations desirable. Apply 48/047, Office of this Paper.

A SSISTANT required for Laboratory in London Manufacturing Chemists; age 20.25; one with previous experience preferred. State age and salary required, ZH134, c/o Deacon's, Leadenhall Street, E.C.

DRUGGISTS (Wholesale) require Wet Counter hands. Apply, giving previous experience and wages required, either by written or personal application (after 10.30), to Devon Wharf, Emmott Street, Mile End.

POREMAN wanted by a London house for a Wet and Dry Department; must be experienced, capable of controlling a small staff, reliable, and accurate. Apply, stating full particulars of age and experience, and wages expected, to 10/100, Office of this Paper.

CLASS-BOTTLE Business.—Wanted, capable man to control Glass-bottle business of Wholesale Druggists in the provinces. State age, experience, and salary required, 46/66, Office of this Paner.

H OSPITAL Laboratory Assistant.—Boy, aged about 16, wanted to do X-Ray Developing, Clerical work, etc., and to help in Post-mortem room; wage commencing at 12s. 6d. a week, with tea. Apply, Secretary, Royal Hospital for Chest Diseases, City Road, E.C., giving three testimonials as to character, etc.

LABORATORY Assistant; qualified; 22-25 years of age. Apply, giving full particulars, to "A. J. B. C.," Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, Londen, S.W.

LABORATORY hands wanted, also Assistants for Wet Counter.
Address, stating age and wages required, "K." (48/31),
Office of this Paper.

ABORATORY Manager wanted by a well-known Wholesale house; must be fully qualified, a hard worker, and good organiser; previous experience in a similar post essential. Please give 'previous experience in first letter to "Radix" (49/19), Office of this Paper.

PACKER.—Competent Export Packer required by South London Manufacturers; permanent employment for suitable man. Apply, 48/47, Office of this Paper.

RELIABLE Foreman wanted for a London house for Packed Goods Department; must be experieuced, accurate, and capable of controlling female staff. Apply, stating full particulars of age, experience, and wages expected, to 10/101, Office of this Paper.

CTRONG Youth, aged about 18, with some knowledge of steams of pan work, required in Laboratory of old-established London house; permanency for suitable candidate. Write fully, stating wages, to 10/010, Office of this Paper.

CURGICAL Instruments.—Assistant required, with good experience and capable of dealing with orders, inquiries, correspondence, and also controlling stock. Apply, Chas. F. Thackray, 52 Great George Street, Leeds.

TRAVELLER required immediately, with sound connection amongst Export trade; £250-£300 and liberal commission to right man. Write, full particulars, to "Export," care of Crossley & Co., Ltd., 57 Coleman Street, E.C.

TRAVELLER required; connection amougst Chemists and Stores, South and North of England and Wales; £250-£300. Write, full particulars, to "Chemists," eare of Crossley & Co., Ltd, 57 Coleman Street, E.C.

WANTED, experienced man for a leading Wholesale house in the Midlands, used to collecting orders for despatch from the various parts of the department; permanency. State age, salary, and experience, 49/66, Office of this Paper.

WANTED, by a Dublin firm, as Laboratory Assistant, a young gentleman not under 22 years of age; possessing a sound knowledge of General Chemistry and with some knowledge of Pharmacy. Apply, stating salary expected, age, where educated, and copies of testimonials, to 48/66, Office of this Paper.

WELL-EDUCATED Youth, aged about 19, required in Analytical Laboratory of London Manufacturing Chemists; should possess some knowledge of Chemistry and be able to fit up simple apparatus; unique opportunity to obtain experience of Commercial Analysis. Write fully, mentioning remuneration expected, to 9/35, Office of this Paper.

WET Counterman required, experienced; comfortable permanency if suitable. Please state age, salary expected, etc., Timothy White Co., Ltd., Portsmouth.

WET or Dry hands wanted, with some experience; age 18-20. Apply, stating full particulars of age, experience, and wages expected, to 10/10, Office of this Paper.

WHOLESALE Chemical house require Junior Assistant for weighing and bottling Chemicals. State age, experience, and wages required, 49/56, Office of this Paper.

YOUTH wanted in the Wet Department of a City Wholesale Druggists. Apply, 5/37, Office of this Paper.

## SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

7 38. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

GENEVA, Pharmacic Principale,—English Assistant wanted speaking French; good pay. Send full particulars of experience, 3/35, Office of this Paper.

WEST Indies.—Qualified Manager-Assistant wanted for three years' engagement; passage paid; salary £200, rising to £250, and share of the profit; must furnish highest references. Apply, with photo and copics of testimonials, H. E. Stevenson & Co., 122 Great Suffolk Street, S.E.

## SITUATIONS WANTED.

18. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

## [HOME.] RETAIL.

A CTIVE; unqualified; 23; 8 years' experience, including West End. "B," Claude Place, Cardiff.

AS General Assistant or Dispenser; evenings from 6 p.m.; must be in neighbourhood of Victoria, Waterloo, or Surbiton; excellent testimonials. Apply "S. B. B.," 99 Cotterill Road, Surbiton.

A SSISTANT or Management small Drug-store where registration not essential; about two years last berth; change desired; used sole charge; sober, active, obliging; good worker: Salesman, Prescriber, etc.; interview entertained; London or near; disengaged. Trustworthy" (7/4), Office of this Paper.

A SSISTANT; unqualified, general all-round; outdoors; married; 40; 5 ff. 9 in.; Prescribing, Dispensing, Windows, Photography, Bookkeeping; also knowledge Herbal Remedies. "Idem" (6/22), Office of this Paper.

A SSISTANT: 23: unqualified; London; undeniable references; well experienced. State salary, hours. 9/7, Office of this

CHEMIST (lady) disengaged shortly; experienced; excellent references. Apply 4/12, Office of this Paper.

COMPETENT Assistant; unqualified; up to date; excellent references: 16 years' experience in good-class Dispensing, Prescribing, Window-dressing, and Retail trade; good salary; married. Stenben, 72 Conduit Street, Leiesster.

DISPENSER, unqualified; 8 years of best Dispensing emperience; highest references; strict T.T.; disengaged April 21. 5/15, Office of this Paper.

DISPENSER (26), unqualified; good references; steady and reliable. "Radix," 10 Calverley Road, Eastbourne.

DISPENSER, lady (Hall), desires Locum work during summer. Miss Fry. 46 Greenway Avenue, Taunton.

DISPENSER: Doctor's; married; abstainer; 36; live on pre mises preferred. 9 Guildford Road, Brighton.

ELDERLY qualified Manager-Assistant; N.H.I.; single; moderate hours. C. M., 16 Wallows Lanc, Walsall.

EXPERIENCED Manager; qualified; age 34; outdoors; London. West, preferred; excellent references. 4/30, Office of this Paper.

JUNIOR Assistant; unqualified; outdoors; 21 years of age; good experience in Light Retail, Photographic, and quick good-class business; fair Dispenser; good references. Apply F. B. Curran, 2 St. Sampson's Square, York.

JUNIOR Assistant requires berth; time for study; S.E. London preferred. Apply 10/6, Office of this Paper.

TADY Dispenser (unqualified) desires post with Doctor or State Chemist; knowledge of keeping Doctors' books; willing to assist at Counter; 6 years present berth; near Cardiff preferred, though not essential; live out; moderate salary. Write 1/16, Office of this Paper.

ADY Dispenser (Hall certificate) desires position. "Liverpool Pharmacist," 20 March Road, Liverpool.

ADY Dispenser, experienced, Hall qualification, desires Relief work. Mill, Chestnuts, North Wingfield, Chesterfield.

LADY Dispenser; Part-time; thoroughly experienced; references; London only. 7/3, Office of this Paper.

LADY Dispenser-Bookkeeper (Hall) seeks post; experienced; in for near London preferred. 6/31, Office of this Paper.

LOCUM, unqualified; 26th inst. to April 6; 8 years' firstclass experience. Allman, 23 Kenilworth Road, Ealing.

LOCUM (40), qualified; experienced, reliable, competent; excellent references. Benney, Egloskerry, Cornwall.

LOCUM, qualified; well experienced in routine of Pharmacy and Drug-stores; good references. "N," 1 Ordnance Place; Shooter's Hill, Woolwich.

OCUM, town or country; permanency town; thoroughly experionced. Forster, 5 Coleridge Road, Finsbury Park, N.

L OCUM, qualified, disengaged April 1; temporary, or suitable permanency. "Manager," 22 Brook Street, Grosvenor Square,

M.P.S. (27) desires Locum work from June 1; Hospital Selly Park, Birmingham.

MANAGER: 31; married; Photography, Prescribing, Extractions; Minor qualification; excellent reference. 4/14, Office of this Paper.

MANAGER, with view to early succession preferred. "Qualified," 3 Milton Terrace, Solby.

MANAGER; qualified; 39; abstainer; 20 years' London and country experience; permanency. "M.P.S." (5/14), Office of this Paper.

MANAGER or Dispenser, qualified: 34; excellent all-round experience; disengaged Easter. "Iridin," 29 West Bank, Stamford Hill, N.

MANAGER; 44; disengaged; good experience, Prescriber, Dispenser; outdoors. "A.," 95 East Ferry Road, Poplar, E.

MANAGER; thoroughly experienced West End Chemist, Organiser, Buyer, Counterman; disengaged; highest Merences. Particulars and terms to "Chemist," 65 Warwick Avenue, W.

PART-TIME; experienced Assistant, now medical student, requires work within easy reach of West End; please state terms. S. W. Hulme, 27 Grange Road, Canonbury, N.

PART-TIME wanted; experienced Dispenser and Bookkeeper; sober; reliable; highest references; Doctor preferred. "H.," 4 Bridge Road, St. Margarets, Twickenham.

PERMANENCY, Locum; reliable Chemist, experienced, excellent references, disengaged. 8 Windsor Crescent, Mutley Road, Plymouth.

PHARMACEUTICAL Secretary; well-educated young gentleman, with high-class Dispensing and Pharmaceutical experience, who has had literary training, desires suitable employment; disengaged beginning of May. Reply 6/17, Office of this Paper.

PHARMACIST, exceptional experience, highly recommended, shortly disengaged; view to partnership or succession preferred in a good-class Dispensing business; married; capital ready. F. S. M. C. (6/40), Office of this Paper.

QUALIFIED Locum; elderly; disengaged. J. Green, 23 Victoria Road, Edmonton.

QUALIFIED Senior, 28, excellent experience, reasonable hours, disengaged. Williams, Beacon House, Torquay.

QUALIFIED; 27; 5 ft. 9 in.; good all-round experience; used to managing. 7/35, Office of this Paper.

QUALIFIED Manager; 44; competent, trustworthy, willing; abstainer; married; West Country preferred; at liberty April 22. Write 6/10, Office of this Paper.

QUALIFIED; 35; energetic; 12 years' best West End reference; accustomed to control. 6/18, Office of this Paper.

QUALIFIED (32), married, seeks position as Manager within the next month or two with view to succession; has some capital experience, London and provincial towns; would prefer a sound country business with scope. Full particulars 8/37, Office of this Paper.

QUALIFIED; middle-aged; single; out of business two years; small salary. "Improve" (9/25), Office of this Paper.

QUALIFIED; outdoors; single; middle-aged; smart Counterman; thorough West End, City, and French experience; excellent testimonials; shortly disengaged. 10/2, Office of this Paper.

QUALIFIED Manager, Locum; exceptionally good all-round experience; satisfactory references. "Phenazone," 20 Strathblaine Road, Wandsworth, S.W.

QUALIFIED (38) disengaged; all-round experience. "Pharmaeist," 37 Bessborough Gardens, Westminster, S.W.

QUALIFIED Manager, Senior, Loeum, 36, soon disengaged; experience all classes; London preferred. 10/17, Office of this

R. WALTER (late J. Wellesley Douglas, Ltd., Lambeth, 6 years) is now booking up Locum work, evening or daily, seeks early applications. 32 Chester Street, Kennington.

U NQUALIFIED; 10 years' experience, Counter and Prescribing. J. E. B., 14 Blaudford Road, Beckenham.

UNQUALIFIED; outdoors; London and Continent experience; middle-aged; good references. "Chemicus," 103 Hereford Road, Westbourne Grove, W.

UNQUALIFIED; experienced; trustworthy; good-class country; middle-aged; married; references. "Dispenser" (7/38),

UNQUALIFIED, 33 years old, tall, good references, first-class experience all branches, seeks engagement as Manager of Drug Stores, or would act as Locum; disengaged after Easter. "Rhei" (7/11), Office of this Paper.

UNREGISTERED, middle age, abstainer, married, no family, 30 years' varied experience, seeks situation with Chemist who requires help; live on premises, with prospect of acquiring business. Apply "George" (6/6), Office of this Paper.

UNREGISTERED Scotchman (27) disengaged; Prescriber, Dispenser, and preparation of B.P. articles. 2/4, Office of this

WANTED, for May or June, situation with view to carly succession; seaside preferred; Major qualification; knowledge of Laboratory work, urine analysis, bacteriology, etc.; high-class Retail, Dispensing, and Optical experience. Apply 6/25, Office of this Paper.

## WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in mo case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

A DVERTISER, 10 years' Hospital experience, making stock, requires Wholesale; age 25. A. Pearson, 40 Ellen Street, E.

ENERGETIC, experienced Traveller seeks re-engagement; York-office of this l'aper. 7/37,

LADY, capable, competent, experienced in Wholesale Perfumery trade, accustomed to manage and control large staff, desires similar position. 10/7, Office of this Paper.

PUSHING Agent open sell good lines on commission. Squire, 408 Uxbridge Road, W.

QUALIFIED (29), 12} years' experience, Retail, Wholesale, Manufacturing, seeks responsible post; Representative, or other capacity demanding concentration; accustomed to controlling men. 8/53, Office of this Paper.

SURGICAL Instruments and Drnggists' Sundries; position required as Manager, Buyer; extensive experience with the best houses in the trade; good organiser. 7/33, Office of this Paper.

To Manufacturers of Pharmaceutical and Toilet Preparations.—
West End Pharmacist desires appointment; has sound and practical knowledge; experienced and successful in introducing new and high-class lines, and as an organiser and advertiser; highest references. "Pharmacist," 33 Bristol Gardens, Paddington

TOILET Soap and Perfumery.—Experienced Traveller, with very large connection in England and Scotland and good references, is open to re-engagement; has live connection of over 2,000 customers. 7/12, Office of this Paper.

## SITUATIONS WANTED.

(Colonial, Indian and Foreigu.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependenci or elsewhere abroad.

QUALIFIED, 4 years' experience in the East, requires position as Partner, Manager, or Chief Assistant abroad; knowledge of Optics and Photography. "Tidapa," 9 Streatham Hill, S.W.

## Refugee Belgian Pharmacists.

This section is devoted to the announcements of Belgian confrères at present in this country. We shall be pleased to insert gratis announcements of a similar character from others who are seeking situations in the Drug trade.

Cette section est réservée pour les annonces des confrères belges qui se trouvent actuellement dans ce pays. Nouserons heureux d'insérer gratis des annonces semblables da seux cherchant des places dans le commerce des drogues.

A LGERIA.—Belgian Pharmacist, speaking French, German.
English, desires Agencies for British Manufacturers of Chemicals and Pharmaccuticals for Algeria. Address, 42/67, Office of this Paper.

BELGIAN Refugee, at present in Holland, wants employment in a Pharmacy or Wholesale House in England or the Colonics. Address, R. van Luick, 330E Boczemsingel, Rotterdam, Holland.

## MISCELLANEOUS.

ANILINE COLOURS.

A DVERTISERS are open to buy job lots of these at full prices. 256/32, Office of this Paper.

HOPFITTINGS (Second-hand).—12-ft. Plate-glass fronted and solid Mahogany Counter, £8 108.; 10-ft. ditto, £7 58.: Perfumery Case and Desk, mirror box, glass shelves, solid Mahogany, 578. 6d.; 6-ft. Mahogany and Bent Plate-glass Counter Case, 928. 6d.; other bargains. Philip Josephs & Sons, Ltd., 93 0ld Street, E.C.

SECOND-HAND Chemist's Fittings.—We have an exceptionall-fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 269 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind yon may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S.E. Hackett, 23 July Road, Liverpool, E.

CHEMISTS' Shopfittings.—Silent Salesman, Showcases, Window-enclosures, Dispensing-screens, Drug-fittings, Wallcases, Glassfront Counters, Counter Drawers, etc., at lowest prices; shopsoiled second-hand; 30 years fitting pharmacies; you will savetime and money by sending your requirements to George Cock, The Chemists' Working Shopfitter, Catherine Street, City Road, Old Street, London.

HEMISTS in military training centres who have not yet written in for a specimen copy of this attractively printed handbook should lose no time in sending us a postcard. Numerous inquiries already to hand, and only one firm in each town or district will be supplied.



## MOORHEADS, Ltd. QUEENBOROUGH, KENT.

WANTED to purchase, a good Formula for either Toilet Article or Medicine, suitable for a mail order business; must be easily worked. Apply 4/24, Office of this Paper.

CHEMIST.—Complete set of modern Fittings; good second-hand; 12-ft. Drug Fitting, complete; 10-ft. Glass-fronted Counter; 6-ft. Dispensing Sereen and Counter; Perfnmery Case and Desk; 4-ft. Mahogany Bent Plate-glass Counter Case; 6-ft. Mahogany Wall Case; £43 10s. the lot; absolute bargain; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, improvements, etc.; designs, estimates free. MILLS, Shop Frest, Shop Fitting, Glass Facia Works, 163-5 Old Street, London, E.C. 'Phone 550 London Wall.

## WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary husiness channels.

## TERMS

Minimum charge (including registration fee) of 1/for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND . DRUGGIST."

## WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact hy postcard or otherwise stating quantity and price to

### THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Beta-naphthol (commercial Sodium salicylate (Scher-preferred), 1 lb. upwards ing). powder or crystal (47/26)

## FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers :-

Aspirin, soluble (8/15) Benzoic acid (natural) Benzyl benzoate (50/1) Bromural tablets (8/15) Citarin (4/33) Cycloforia ointment (8/15) Epicarine (4/33; 50/1)
Eucaine (4/33; 50/1)
Eucaine (4/33)
Eucaine hydroch, and lactate (8/15)
Eupnine (Vernade) (8/15)
Exalgine (4/33)
Exalgine (4/33)

Exalgine (4/35)
Ferro-sajodin (8/15)
Formalin (Schering), 1-gal.
bottles (5/26)
Glutol (3/15)
Guaiacol (4/33) and carbonate (4/33) Hydrastinin hydroch, tablets (8 15

Lupulin (4/33)
Lupulin (4/33)
Lysidine solution (8/15)
Mesotan (4/33)
Phenacetin (3/37)
Phenolphthalein (4/33) Phenylenediamine hydrochlor. (50/1) Phosphocose (8/15) Sajodin (4/33) odium glycerophosph. solution (8/15) Sodium Solution (8/15) Solution (8/15) Stovaine (4/33) Thigenol (50/1) Ung. jothion (8/15) Validol (4/33)

Iridin (4/33) Lecithin (Poulenc) (8/15) Lithia gualacate (4/33)

## EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

## FOR DISPOSAL.

## BOOKS AND PERIODICALS.

"HARMSWORTH'S Business Library," 10 vols.; unsoiled; cost 878. 6d.; what offers? Stanley, 67 College Road, Willesden.

## DRUGS AND CHEMICALS.

450 santalwood capsules, 10 m.; 12 oz. sugar of milk; what offers? Wills, Chemist, Merthyr Tydvil.

EXCHANGE, 4 oz. eocain for 4 lb. sod. salicyl., or any part. Thomas, Chemist, Cowbridge Road, Cardiff.

3 DRAMS eodeinæ phosph., 2 oz. morph. hydroehlor., 1 lb. pulv. opii, 12 oz. pulv. eanthar. 3/37, Office of this Paper.

WHAT offers? 7 lb. acid. benzoic. artif., 3 lb. acetanilide, 10 lb. acid. acetic. glacial,, 4 lb. acid. hypophos. fort., 8 lb. glyccrin. bellad., 1 oz. eoeaine mur., 1 oz. eodeine. 7/22, Office of this

## PROPRIETARY ARTICLES.

SIX 4s. 6d. Angier's emulsion, fresh stock; cash offers or exchange; sod. salicyl. wanted. Dunnet, Chemist, Falkirk.

## SHOP FITTINGS.

HANDSOME wall case, 15 ft. by 10 ft., cost £90; nest of drawers, mahogany, 11 ft., up to date; exchange for general stock. Cox, 153 Eardley Road, Streatham, S.W.

BOTTLES for disposal: 2 gross 10-oz, pale oval plain (ribbed one side), 3 gross 6-oz. D.B. stoppered flats, 11 gross 3-oz. ditto; all at 128. per gross to elear. Lockyer, Chemist, Deptford.

## MISCELLANEOUS.

SANDOW'S dumb-bells, gents', 7 springs, 8s. or nearest; "Gem" air rifle, 10s. or nearest; pocket microscope, 50 x, 4s. 6d. or nearest; all above in splendid condition. Wi 3ht, 36 Wood Street, Stratford-on-Avon.

FOR disposal, I.R. hospital water-bed, 54 by 36, only been used a week, cost £4 15s.; National eash register, all latest improvements, perfect condition, cost 50 guineas; set of brass beam seales and weights to weigh 2 lb.; what offers? Shelley, 36 Caldmore, Walsall.

## WANTED.

15-GRAIN suppository mould for 24 or 12. Clear, Chemist, Leieester.

OPTICAL test ease, second-hand, good. State lowest price and

make, 5/18, Office of this Paper.
PHARMACEUTICAL Journal," July 19, 1879. "Valpy," c/o Acerington Dispensary, Acerington, Lancs.

RECESS labelled shop-rounds, fittings, in good condition; personal weighing-machine. Apply, with particulars and prices, Evans, Chemist, Ammanford.

WANTED, 40 modern second-hand drug-rounds, 10 and 20 oz.; also few ointment jars, 1-lb. size. Pr "Chemist," 187 Drake Street, Roehdale. Price and particulars,

OPTICAL testing ease, mounted lenses; also poison shop-rounds, syrups and oils. Condition and lowest price, Woodhead, Chemist, Eeeles.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; eash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

## ADDRESSES WANTED.

FRANK C. WILLIAMS, Chemist, late of 22 High Street, Ealing, W. Reply, 45/1, Office of this Paper.

## West Indian Lime-juice.

In his report on the trade and industries of St. Lucia for 1913-14, Mr. Anthony De Freitas says that the erection of the Government lime-juice factory, to which reference of the Government lime-juice factory, to which reference was made in the last report, was commenced early in the year under review, but owing to the delay in the supply of the plant by the makers in England the factory was only opened in November. The following is the report of the agricultural superintendent: "The business of the factory is conducted on a co-operative basis. In determining the profits there is deducted from the amounts realised for the sale of produce the amounts paid for the purpless of the sale of profuce the amounts paid for the purehase of limes and line-juice, together with all the expenses of working the factory and disposing of the produce, and, in addition, a sum equivalent to 10 per cent. of the amount paid for the purehase of limes and lime-juice, the remainder being regarded as gross profits to be divided, one-third being paid to the Government and two-thirds to the vendors of the fruit and juice, this latter to be distributed to the vendors by way of bonus, in proportion to the amounts paid to them for limes and lime-juice. The sum equivalent to 10 per cent. of the value of the limes and lime-juice purchased, together with the sum representing onc-third of the profits referred to previously, to be paid to the Government by way of interest and sinking fund in respect to the sum expended in erecting the factory. The price paid for limes and lime-juicc is based on a scale, the prices having a relation to the value of concentrated juice, and ensuring a safe margin of profit to the factory. The seller of fruit realises his full value when he gets his bonus derived from the share of profits. Owing to the unusually high prices for concentrated juice ruling at the time of opening the factory, fruit and juice were purchased on the basis of 24%, per standard pipe of concentrated juice, arrangements being made to make a deferred payment to vendors ments being made to make a deferred payment to vendors in the event of the produce selling above this figure. During the short trial run of the factory the produce dealt with was 232 barrels of fruit and 736 gals, of raw juice. The produce shipped was 255.75 gals, of concentrated juice, which realised 1141. 4s. 1d. net. The amounts to be paid to vendors as deferred payments on produce purchased and as bonus are respectively 201. 16s. 8d. and 101. 1s. 2d. The bonus is equal to nearly 12½ per cent, on the total amount paid for the purchase of produce. Taking the bonus into calculation, the total payment to vendors will be equivalent to 5s. 8½d. per barrel of limes and 8½d. per gal. of standard raw juice."

The object which the Government had in view in establish-The object which the Government had in view in establishing the factory was to obtain for the small proprictors as good a price as possible for the produce of their lime-cultivation, and to encourage them in extending the cultivation. The advantage of the factory's price of  $5\epsilon$ ,  $8\frac{1}{2}d$ , per barrel of ripe limes over the prevailing local price of  $2\epsilon$ , immediately prior to the factory coming into operation is believed to have already induced peasant proprietors to plant more lime-trees. During the year two private factories for the concentration of lime-juice in steam-heated evaporators were established, and two others are in course of erection. There will then be seven such factories in the island, and similar works are likely to be established in the near future as the lime-plantations approach maturity. the lime-plantations approach maturity.

CONTINENTAL DRUG AND CHEMICAL MARKETS.

The following notes chiefly refer to the Hamburg and Berlin markets under date of February 27, 28, March 3

Cantharides have been sold in fairly large quantities at

CANTHARDES lave been sold in fairly large quantities at from m.24 to m.25 per kilo.

CITRIC ACID is dearer, as permission to export has been given in several instances, consequently the demand is larger; m.550 per 100 kilos, has been paid.

CUMIN-SEED.—Maltese and Morocco have both advanced to m.125 per 100 kilos.

CUMIN-SEED.—Maltese and Morocco have both advanced to m.125 per 100 kilos.

DRAGON'S-BLOOD is badly wanted. Good quality has been

. sold at m.400

FLEM is still to be had, but at high prices. Fair pale has been sold at from m.90 to m.85; ordinary is not to be had.

ERGOT is dull, but firm, Russian being unchanged at m.625 and Spanish at m.650 per 100 kilos.

GAMBOGE is unchanged at from m.650 to m.630 for finest, and from m.600 to m.590 for good bright pipe.

GUMS AND RESINS.—Benzoin. The stock of Palembang is diminishing, as very fair quantities have been sold. Prices are high. Finest has been sold at from m.190 to m.200;

good firsts, m.170 to m.155; good seconds, m.128; and ordinary seconds, m.118. Sumatra is unchanged, but with a firmer tendency. Fair almondy is quoted at from m.360 a firmer tendency. Fair almondy is quoted at from m.350 to m.295, according to quality; ordinary is non-existent. Siam has been active; bold free almonds are wanting; medium to bold almonds have been sold at from m.14.50 to m.12, and small from m.9.50 to m.11 per kilo. Copal is in active demand, especially the cheaper sorts, though the better qualities are not at all neglected. Ordinary sorts have been sold at from m.70 to m.78; natural Batjan is from m.76 to m.85, according to quality; fine pale Batjan in bold pieces is from m.89 to m.102; finest from m.105 to m.115. Fine hard pale Manila is also active, and has been sold at from m.165 to m.145; ordinary qualities of Manila are cheaper. Congo copal is in demand, especially the cheaper sorts, in order to make turpentine-substitutes. Madagascar, too, is in good demand; for finest extra hard sorts from m.290 to m.240 has been paid; hard pale from m.290 to m.200. Finest Benguela has been sold at from m.190 to m.200; there was more demand for ordinary Benguela, however, at from m.52 to m.38. Fair pale natural Angola is quoted at from m.220 to m.250. Large quantities of Congo copal, which have been bought Large quantities of Congo copal, which have been bought on German account, are still warehoused in Antwerp, and are anxiously awaited in Germany. Damar is quiet.

Kola.—Some large orders have been refused owing to the limits being too low. Prices are unchanged at m.130 per 100 kilos, for quarters and m.115 for halves.

MASTICH is more inquired for; m.700 has been paid for

prompt delivery MENTHOL suddenly became active, and owing to speculation prices have advanced to m.36 per kilo.

tion prices have advanced to m.55 per kilo.
Olls (Essental).—Star-anise quiet at m.15.50 per kilo.;
Cedarwood is quoted m.220 per 100 kilos; Eucalyptus is
m.430. Siberian Pine oil is obtainable at m.275 per
100 kilos. Substitutes for Turpentine oil have been offered
at from m.85 to m.110. Japanese Mint oil is unchanged at
m.12 to m.12.25 per kilo., although the demand has somewhat increased.

what increased.

what increased.

OILS (FIXED) AND FATS are very firm; there is a large demand, and offers are only small. Castor is searce; first-pressing is quoted at m.280. English Cottonseed is nominal at m.125. Coconut is very firm at m.155. Earthnut is quoted m.110 and German at m.117 (spot Hamburg). Lagos Pulm is practically unobtainable, and is quoted at m.146. Palm-kernel is m.152. Rapeseed is quiet at m.145. Soya is very firm at m.125. Tallow is also very firm at from m.150 to m.150 for food-tallow and from m.140 to m.150 for soap-manufacture. Whale oil is higher, Newfoundland offering at from m.110 to m.112 per 100 kilos, in barrels, No. 0 at m.105, No. 1 at m.100 per 100 kilos, in barrels. Medicinal Cod-lirer is m.125 per barrel. Hankow Wood is firmer at m.90.50. Wood is firmer at m.96.50.

OPIUM is in slight request only, but sellers maintain the

price at m.45 per kilo. for 10-per-cent. morphine.

PHOSPHORIC ACID is dearer, as raw material is much higher. Makers ask from m.200 to m.210 per 100 kilos.,

THYMOL has advanced to m.48 per kilo.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, March 31.

Pharmacentical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 8.30 r.m. Evening meeting. Mr. Peter Bon on "Pasta lodi et Amyli B.P.C." and Dr. A. Archibaid Boon on "Some Unusual Reactions of Dibromognicy Idage acceptage." anisylidene-acetophenone.

Public Pharmacists' and Dispensers' Association, 17 Bloomsbury Square, London, W.C., at 8 P.M. Dr. R. L. Sherlock, lantern-lecture on "Geology and Scenery."

Thursday, Apr 1 1.

Great Yarmouth Pharmaceutical Association, at 8.30 P.M. Annual meeting and election of officers.

SHEFFIELD PHARMACEUTICAL AND CHEMICAL SOCIETY.—The meeting arranged for March 31 is postponed to April 15, when Mr. Harold Wyatt, Ph.C., will give a paper on "Dispensing Notes."

NATIONAL CHAMBER OF TRADE.—The sixteenth annual meeting will be held in the Exchange, Nottingham, on April 8 and 9. Admission tickets for delegates and individual members can be had on application to the Hon. General Secretary, Mr. S. T. Nichelson, 1 and 2 Posterngate, Hull.

# CHEMISTS AND SEED TRADE

FLOWER AND VEGETABLE SEEDS IN 1d. PACKETS,

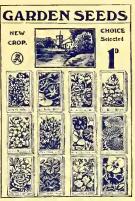
One of the most Attractive and Profitable Side-Lines possible for Chemists.



7/- per gross, net. Packed on 3 doz. cards.

These should be ordered as Prize Sweet Peas to distinguish between ordinary varieties.





On half-gross cards. 5/- gross, net.

M

ALL SEEDS SENT ON HALF-GROSS CARDS unless otherwise ordered.

Not less than half-dozen of any sort supplied at gross price.

Less than half-dozen are charged 9d. per dozen, or single packets 1d, each.

EMPTY PACKETS 9/- per 1000. 1/- per 100. 4d. per packet of 25.



"Winged Lion" Brand.

# BIRD SEEDS

(IN PACKETS).

Put up in Cardboard Cases, with attractive designs in colours. The seeds are carefully selected from the finest stocks, and are free from all dirt and dust.



This combination of 10 Varieties of Seed is the Best obtainable FOR ALL KINDS OF CAGE BIRDS.

Canaries, Larks, Linnets and all Song Birds will thrive and sing upon this Food when other kinds are rejected.

All Dust and Impurities are carefully removed, and only Seed of first-class quality used.

## PRICES:

1d. Packets				9/-	Gross,	in l	gross	boxes.
1½d. Monster	Packet	1/3 per	dozen	14/-	,,	in 1	dozen	parcels,
2d. Packets	• • • •				,,			
$\frac{1}{2}$ lb. ,,	• • •	• • • •		18/-	* *	in 1	dozen	cases.
3d. ,,	•••			28/-			,,	
4d. ,,	• • •	• • •			,,	,,		11
1 Pound				36/-				

POTTER & CLARKE, Ltd., WHOLESALE SEED & DRUG IMPORTERS,

ARTILLERY LANE, LONDON, E.

Herb Farms and Seed Testing Grounds—CARSHALTON, SURREY.

Manchester Address—24 LUNA STREET, GREAT ANCOATS, MANCHESTER.



MARK

BC.4000

ASPIRIN TABLETS

WE CAN NOW OFFER AT THE FOLLOWING ADVANTAGEOUS PRICES.

Bottles of 25 - - 6/- per doz.

Bottles of 50 - - 11/- per doz.

Bottles of 100 - 20/6 per doz.

In Bulk, per 1000 - 15/-

NAME AND ADDRESS ON 3 DOZEN, Carriage paid.

Chemists are advised to sell at 1/-, 1/9 and 3/respectively, as prices of the drug are advancing daily,
and the above wholesale prices cannot be long maintained.

WE CAN ONLY BOOK ORDERS FOR SPOT DELIVERY OWING TO SCARCITY OF THE DRUG.

Handsome Free Showcard with every order.

Prices are without engagement and subject to being unsold.

